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## NOAA Technical Memorandum NMFS



**SEPTEMBER 1987**

### **ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1952**

Elaine M. Sandknop  
Richard L. Charter  
H. Geoffrey Moser  
James D. Ryan

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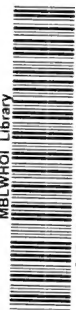
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Elaine M. Sandknop  
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H. Geoffrey Moser  
James D. Ryan

Southwest Fisheries Center  
National Marine Fisheries Service  
La Jolla, CA 92038

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## ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1952. It is the second report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 1491 stations was occupied during 11 monthly multivessel cruises over the quarter-million square mile survey area which extends from the California-Oregon border to Cape San Lucas, Mexico and seaward to several hundred miles. The data are listed in a series of 6 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 120 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

## INTRODUCTION

This report, the second of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1952. This program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (*Sardinops sagax*) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the ichthyoplankton from them. SIO processed and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1952 have been published in a number of forms. Hydrographic data (Reid et al., 1965), zooplankton volumes (Staff, SPFI, 1953; Thrailkill, 1956; Smith, 1971) and ichthyoplankton data for selected species (Ahlstrom, 1954) were presented in standard formats. The latter lists counts for eggs and larvae of sardine and for larvae of northern anchovy (*Engraulis mordax*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), Pacific hake (*Merluccius productus*), and rockfishes (*Sebastes* spp.). Also, length frequencies are listed for sardine, anchovy, and jack mackerel larvae. Distribution maps of larvae of 5 of these taxa taken on CalCOFI surveys during 1952 are presented in the CalCOFI Atlas series (Kramer and Ahlstrom, 1968; Ahlstrom, 1969; Kramer, 1970; Ahlstrom et al., 1978).

A computer data base for eggs and larvae of sardine and anchovy and for larvae of hake, and the two mackerels was established in 1969. The development of a data base for other fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1952 were subjected to an extensive verification and editing process to produce this report. This, and previous (Ambrose et al., 1987) and subsequent reports, make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the earlier years are reidentified. These reports are the fundamental reference documents against which subsequent changes in the data base can be compared.

#### SAMPLING AREA AND PATTERN

In 1952, CalCOFI survey cruises were conducted at monthly intervals, except during December. A total of 1491 stations included in this data base was occupied on 11 cruises, with an average of 135 stations per cruise (range of 88 - 227). Coverage of the survey station pattern varied among cruises and the entire quarter-million square mile survey area was not covered on any single cruise (Figures 1-12; Table 1). The area off northern California (lines 40-57) was sampled only in June and July. Coverage off central California (lines 60-77) was more consistent with stations occupied monthly, from April to November. While the area surveyed during 1952 was less extensive than in 1951, the coverage between Pt. Conception, California and Pt. San

Juanico, Baja California (lines 80-137) was sampled more consistently and was surveyed on all 11 cruises. The area off southern Baja California (lines 140-150) was surveyed only once (February). Offshore coverage was not as extensive as in 1951 and occasionally reached station 110 (approximately 250 miles offshore) only on lines 60 and 80. Station 90 was the most seaward station sampled over most of the pattern. Offshore coverage was greatest from January to July and diminished during later cruises.<sup>1</sup>

Seven vessels were employed on these cruises: the *Black Douglas* of NMFS; the *Crest*, *Horizon*, *Paolina T*, *Spencer F. Baird*, and *E. W. Scripps* of SIO; and the *Yellowfin* of CDFG. Two to four vessels participated on each cruise with three being the usual number. The *Crest* was used on all cruises except 5205 and the *Black Douglas* on all but 5207, 5209, and 5210. The other five vessels participated on a total of 14 cruises (Ahlstrom, 1954).

### SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening ( $0.785 \text{ m}^2$  area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca.  $3 \text{ m}^3/\text{m}$  of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by

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<sup>1</sup>CalCOFI lines (Figure 13) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Kramer et al., 1972 for further details).

clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period (35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at  $45^{\circ}$  ( $\pm 3^{\circ}$ ) by adjusting the ship speed and course. After reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1954), Kramer et al. (1972), and Smith and Richardson (1977).

### LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1952 are listed in Staff, SPFI (1953) and presented graphically in Thrailkill (1956) and Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of eggs and larvae of selected species (see introduction). Usually, each sample was sorted completely; however, some of the samples were fractioned into aliquots using a Folsom plankton splitter (McEwen et al., 1954) prior to sorting. Several criteria<sup>2</sup> were used to determine whether a sample was fractioned: samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractioned (to 50%, 25%, 12.5%, or 6.25%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractioned to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for fractioned samples from 1952 are listed in Table 1 under the "Percent Sorted" column.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m<sup>3</sup> of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed, then the adjusted value is equivalent to the number under 10 m<sup>2</sup> of sea surface. The SHF is calculated for each haul by the formula:

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<sup>2</sup>Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.



$$SHF = \frac{10 D}{V}$$

where D = depth of haul = cosine of the average angle of stray of the towing cable multiplied by cable length (m)

V = total volume of water (m<sup>3</sup>) strained during the haul

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current meter during the haul

a = area (m<sup>2</sup>) of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1952. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

## IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of about 118 taxa was identified for 1952, with 67 taken to species, 21 to genus, 25 to family, and 5 to order. Some of the developmental series recognized originally could not be assigned scientific names, particularly in the Bathylagidae, Myctophidae, and Pleuronectiformes. These were given descriptive names, which later were changed to scientific names as they became known.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource used in all phases of this process was the CalCOFI

ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. During the coding of the identification sheets, the "descriptive types" were assigned scientific names and reexamined, if necessary. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. Our current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In many cases, identifications of a taxon were inconsistent among cruises in a year, because of varying competency of identifiers. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly, certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1952 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:

Anguilliformes - tentative and sporadic identifications to family or lower taxon lumped to order.

*Sardinops sagax* - all specimens south of line 120 checked for misidentification of *Opisthonema* spp.

Engraulidae - includes nearshore taxa (mostly *Anchoa* spp.) large enough to separate from *Engraulis mordax*; some nearshore samples of small *E. mordax* may contain other anchovy genera, but could not be differentiated.

*Nansenia* spp. - all specimens checked and identified as *N. candida* or *N. crassa*; all specimens of these species near their range boundaries checked.

Sternoptychidae - tentative and sporadic identifications of hatchetfishes to genus were lumped to family.

*Bathophilus* spp. - all specimens checked.

*Tactostoma macropus* - all specimens checked; all listings of *Bathophilus* spp. were specimens of *T. macropus*.

Scopelarchidae - tentative and sporadic identifications to genus lumped to family.

*Lampanyctus* spp. - tentative and sporadic identifications to species (mostly descriptive types) lumped to genus.

*Stenobranchius leucopsarus* - all specimens at margins of range checked.

*Diogenichthys* spp. - all specimens reidentified to species; residuals are small poorly preserved specimens.

*Diogenichthys atlanticus* - all specimens at margins of range checked.

*Diogenichthys laternatus* - all specimens at margins of range checked.

*Electrona rissoi* - recognition of this species was inconsistent and others may be included in *Protomyctophum crockeri* or Myctophidae; no original identifications were recorded in 1952.

*Hygophum* spp. - all specimens reidentified to species; residuals are small, poorly preserved specimens.

*Protomyctophum crockeri* - some samples on northern lines may contain *P. thompsoni*, which was not identified at the time.

*Symbolophorus californiensis* - all specimens south of line 120 checked for confusion with *Hygophum* spp., stemming from descriptive names.

*Merluccius productus* - all specimens south of line 140 checked.

Ophidiiformes - this category did not exist originally and ophidiiform larvae were included in *Brosmophysis marginata*, Carapidae, "*Otophidium*", "*Zoarcidae*", and "blenny"; identifications of *B. marginata* proved to be mostly correct and "*Zoarcidae*" to be a yet unidentified ophidiiform species; all "*Otophidium*" and "blenny" were reexamined and the former included *Ophidion scrippsae*, *Chilara taylori* and other ophidiiform taxa (moved to order); "blenny" contained *O. scrippsae*, *C. taylori*, and other ophidiiform taxa in addition to true blennioids.

Ceratioidei - identifications of this group were inconsistent and additional specimens may be in the unidentified fish larva category.

Trachipteridae - tentative and sporadic identifications to genus were lumped to family.

*Melamphaes* spp. - all identifications ascribed to Melamphaidae were reexamined and assigned to genus (*Melamphaes*, *Poromitra*) or species (*Scopelogadus bispinosus*); larvae originally identified as *Melamphaes* spp. were not reexamined and this category may contain other melamphaid genera.

Cottidae - some samples may include specimens of *Scorpaenichthys marmoratus*, hexagrammids (e.g., *Oxylebius pictus*, *Zaniolepis* spp.), and some blennioids (e.g., *Hypsoblennius* spp.).

*Zaniolepis* spp. - not identified originally; specimen identified recently from Cottidae.

Scorpaenidae - now includes genera (*Pontinus*, *Scorpaena*, *Scorpaenodes*) other than *Sebastes*; some of these other genera remain in *Sebastes*, particularly on southern lines.

*Sebastes* spp. - in addition to other scorpaenid genera, category includes some *Prionotus* spp., serranids, scombrids, and other spiny-headed shorefishes, particularly in samples south of line 120.

*Hypsoblennius* spp. - some specimens remain in Cottidae.

Clinidae - some specimens remain in Cottidae or unidentified fish larva category.

Labridae - tentative and sporadic identifications to genus were lumped to family.

*Chromis punctipinnis* - records south of about line 120 may include other pomacentrid taxa.

Carangidae - all specimens checked; tentative and sporadic identifications to genus or species (except *Trachurus symmetricus*) were lumped to family.

Gerreidae - larvae of this family and other shorefishes (e.g., Haemulidae, *Caulolatilus princeps*, Mullidae, Priacanthidae) were not identified and may be in the unidentified fish larva category or may be misidentified as *Sebastes* spp., Cottidae, etc.

*Girella nigricans* - all specimens checked.

*Medialuna californiensis* - all specimens checked.

Scombridae - all larvae identified to this family or constituent taxa (except *Scomber japonicus*) were reexamined and re-assigned; underrepresentation or absence of these taxa may be attributed to misidentification or they may be in the unidentified fish larva category.

Nomeidae - absence of this family attributed to misidentification or placement in unidentified fish larva category.

Pleuronectiformes - all available specimens of this category (originally called "flatfish") were examined and reidentified; residuals are small, poorly preserved specimens.

Bothidae - all specimens examined and most were reassigned to various paralichthyid genera or to *Bothus* spp.

*Citharichthys* spp. - tentative and sporadic identifications to species were lumped to genus, which also includes *Etropus* spp. and some other flatfish taxa from original misidentifications.

*Hippoglossina* spp. - all specimens of this genus (originally called "pigmented bothid") were assigned to *H. stomata*.

*Paralichthys* spp. - all specimens of this genus were examined and most were assigned to *P. californicus* or *Xystreureys liolepis*.

*Syacium ovale* - all specimens examined (originally called "spiny-headed bothid").

*Xystreureys liolepis* - originally misidentified as *Paralichthys californicus*; all specimens reidentified.

*Glyptocephalus zachirus* - all specimens examined.

*Microstomus pacificus* - all specimens examined.

*Pleuronichthys* spp. - all larvae of this genus and constituent species were examined and assigned to species; residuals are small, poorly preserved specimens.

*Psettichthys melanostictus* - absence of this species may be explained by misidentification with other flatfish species (e.g., *Lyopsetta exilis*) which we did not reexamine systematically.

#### COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and

saury (*Cololabis saira*); numbers of larvae of sardine, anchovy, hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data (Moser et al., 1987) were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

#### SPECIES SUMMARY

Larvae of northern anchovy (*Engraulis mordax*) represented 16% of all fish larvae taken on CalCOFI cruises in 1952 and ranked 4th in occurrence (Tables 2 and 3). The next most abundant species, Pacific hake (*Merluccius productus*), represented 15.4% of all fish larvae taken. The deepsea smelt (*Leuroglossus stilbius*) and sardine (*Sardinops sagax*) ranked 3rd and 4th in abundance. Sardine incidence was comparatively low (15th) as was hake (12th) indicating relatively large sample sizes. The next most abundant species, a lanternfish (*Triphoturus mexicanus*), the sanddab genus *Citharichthys*, and a gonostomatid (*Vinciguerrria lucetia*), ranked 5th, 6th, and 7th respectively. *Triphoturus mexicanus* ranked 1st in occurrence. Jack mackerel larvae (*Trachurus symmetricus*) ranked 8th in abundance and occurrence. Larvae of *Sebastes* spp., a composite of about 70 species, ranked 9th in abundance and 2nd in occurrence. The 10th ranked taxon in abundance was a lanternfish (*Stenobranchius leucopsarus*). These 10 top-ranking taxa contributed 84.5% of all larvae taken during 1952. The remaining 15.5% is represented by 108 taxa plus the "unidentified" and "disintegrated" categories. Of the 10 taxa, 4 were midwater species, 3 were coastal demersal species or generic groupings, and 3 were coastal pelagic species.

## EXPLANATION OF TABLES

- Table 1 - This table lists by cruise the pertinent station and tow data for 1952, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and seaward directions); the order of station occupancy is shown on the station charts (Figures 2-13). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction and the second set indicates the station on the line. Decimal fractions were not used in 1952. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul factor). Ship codes are as follows: BD, *Black Douglas*; CR, *Crest*; HO, *Horizon*; PT, *Paolina T*; ES, *E. W. Scripps*; SB, *Spencer F. Baird*; YE, *Yellowfin*.
- Table 2 - This table lists pooled occurrences of all larval fish taxa taken during 1952 in ranked order.
- Table 3 - This table lists pooled counts of all larval fish taxa taken during 1952 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.
- Table 4 - This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. Average values are given for stations occupied more than once during a month. See Table 1 for station and tow data and Table 6 for listing of stations with multiple occupancies during a month. Multiple occupancies occurred when a station was occupied more than once in the same calendar month; in some cases, multiple occupancies resulted from separate cruises. The orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.
- Table 5 - This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as in Table 4.

Table 6 - List of stations with multiple occupancies in one month during 1952.

#### ACKNOWLEDGMENTS

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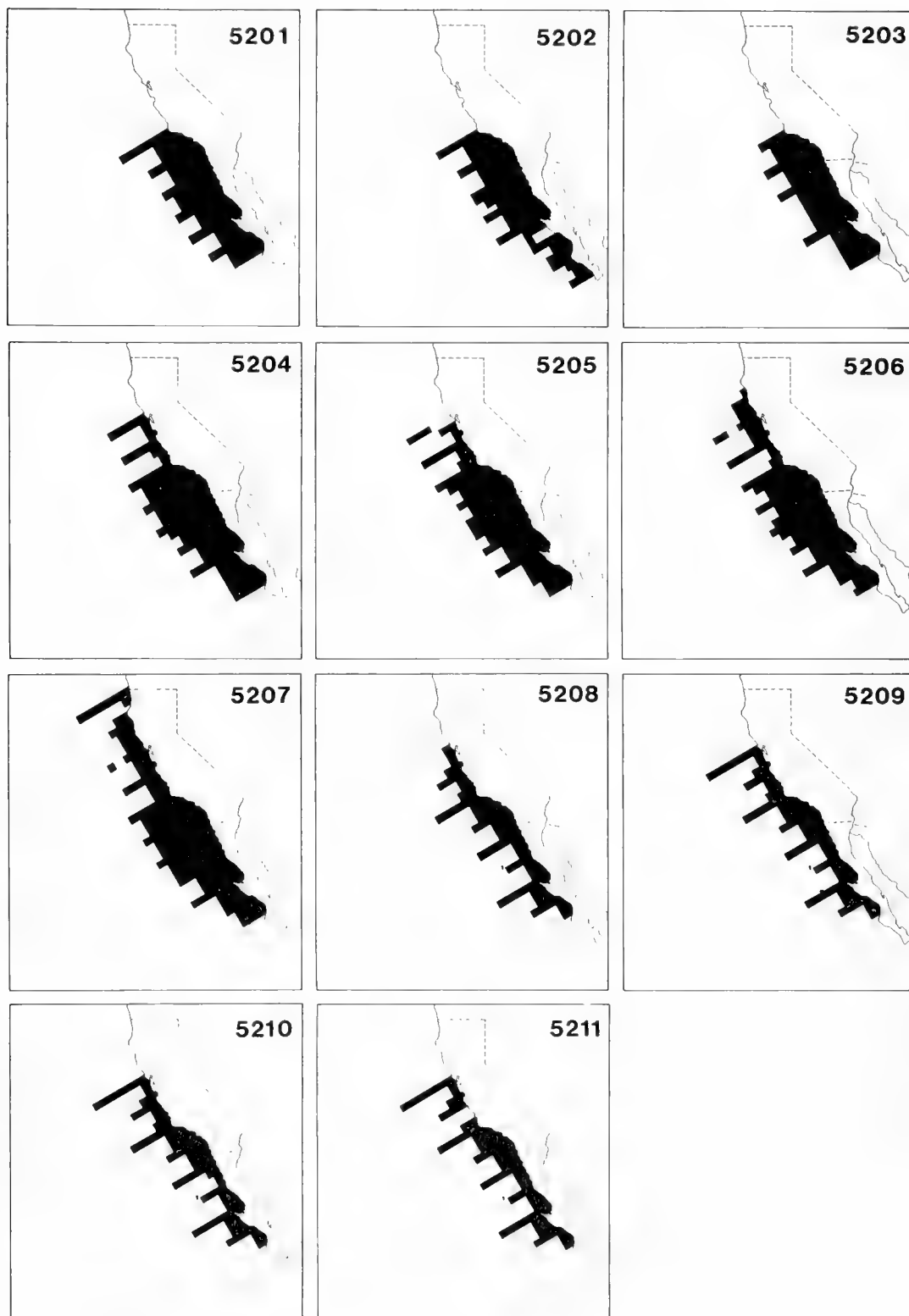


Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1952.

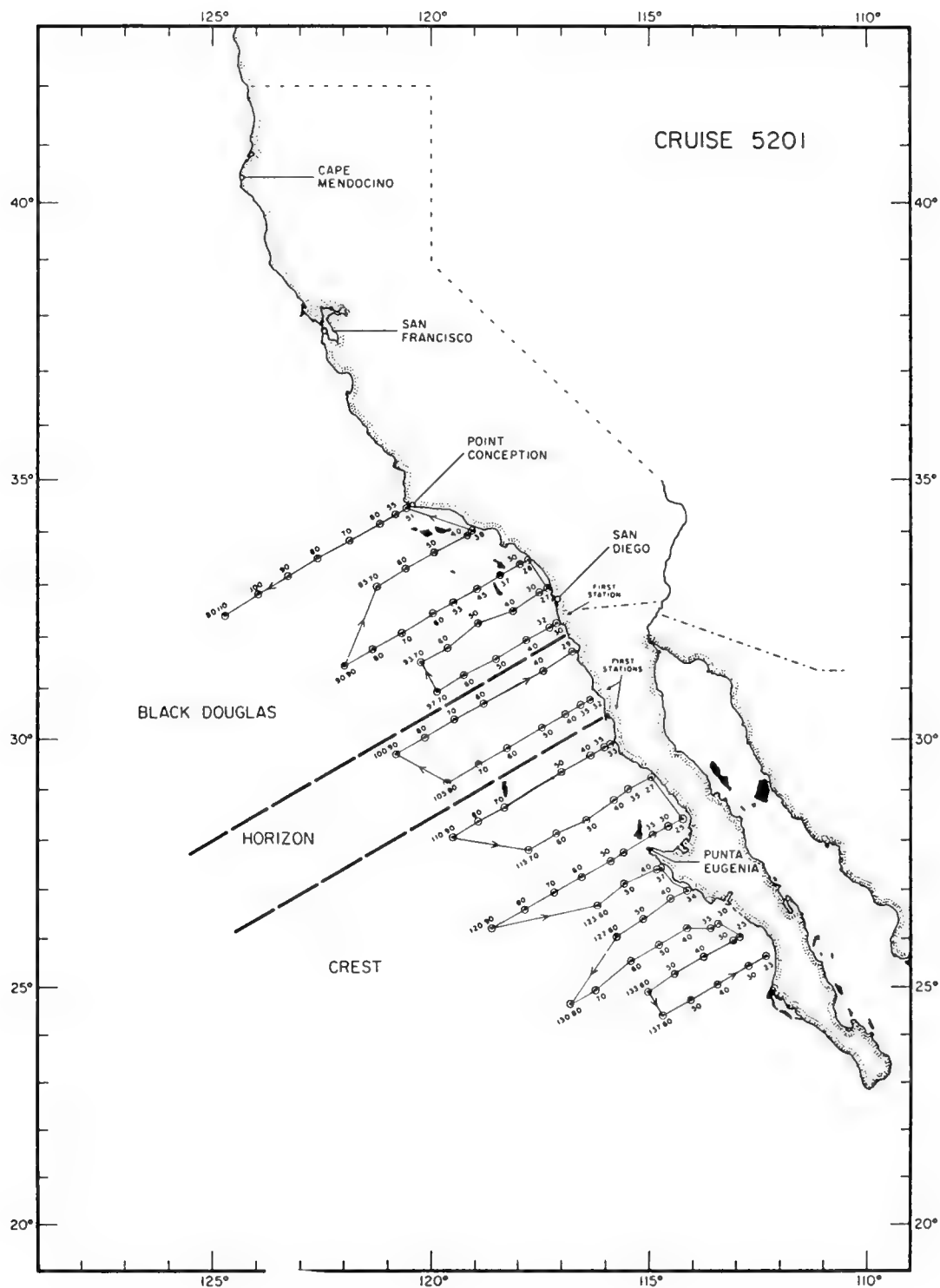


Figure 2. Station pattern for CalCOFI Cruise 5201 showing tracks for each vessel. Stations with plankton tows only are indicated by a dot; those with plankton tows and hydrographic measurements are shown by a dot and circle. Modified from charts in Reid, et al. (1965) to include only those stations listed in Table 1 of this report.

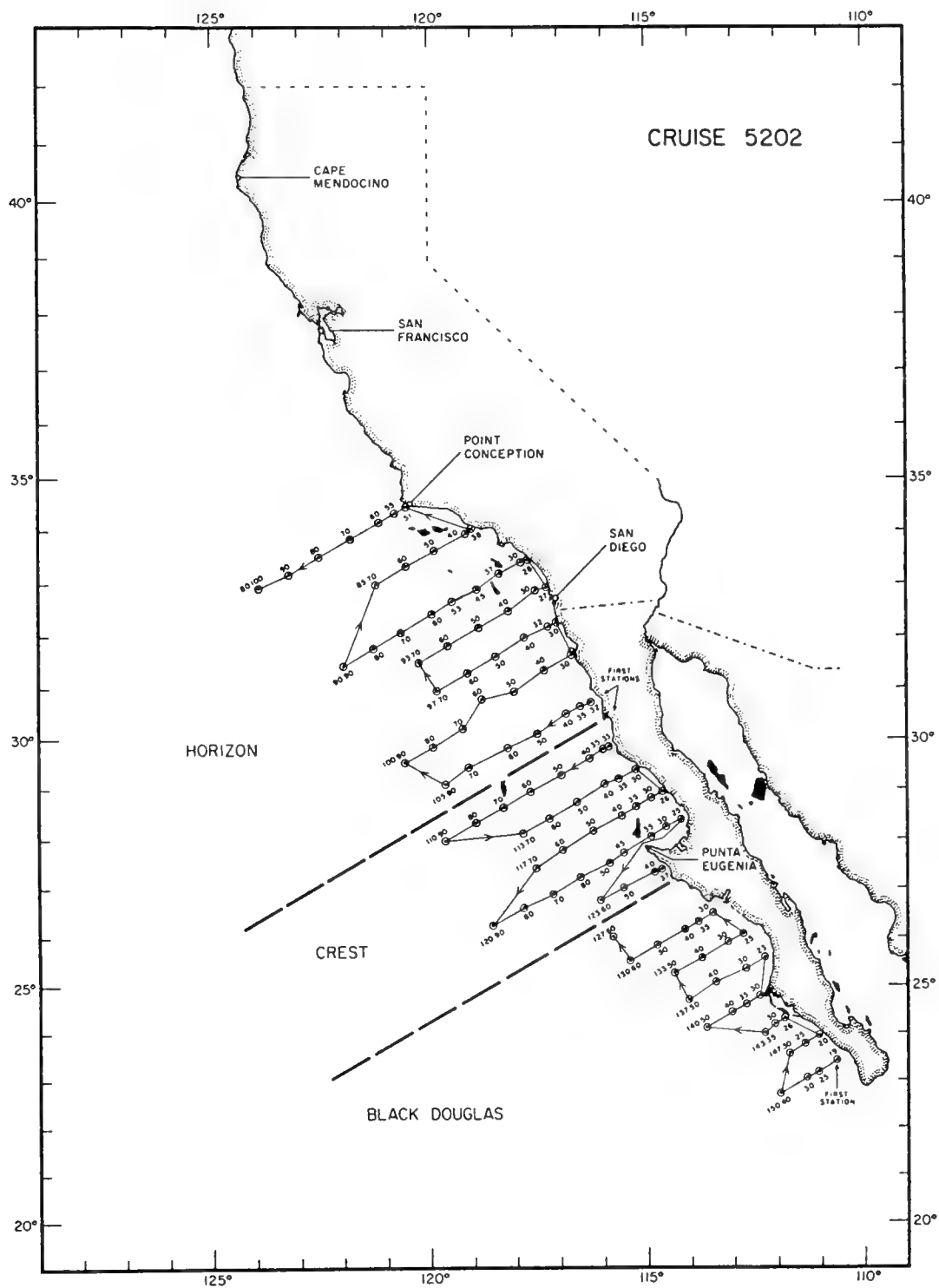


Figure 3. Station pattern for CalCOFI Cruise 5202. Symbols as in Figure 2.



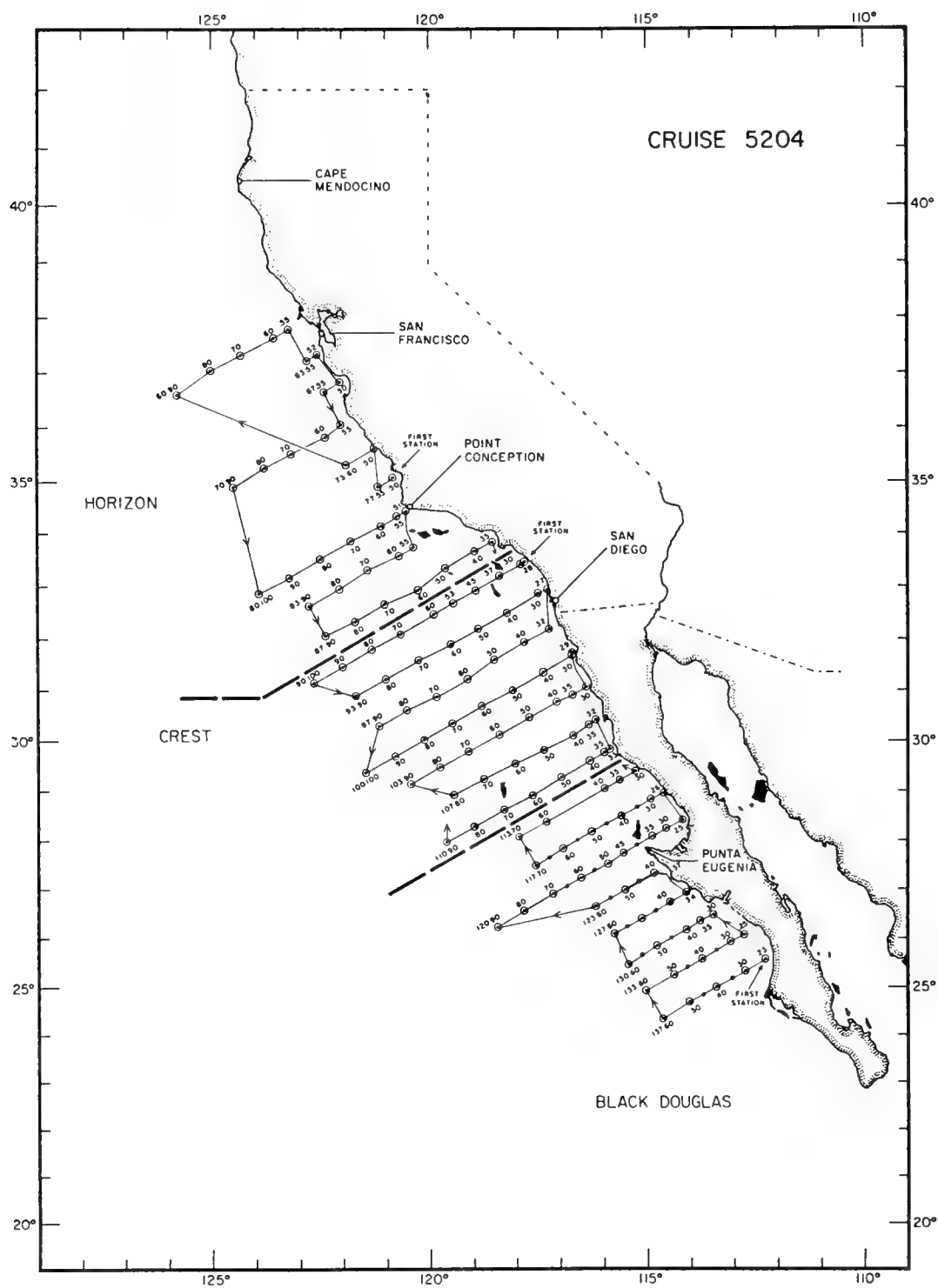


Figure 5. Station pattern for CalCOFI Cruise 5204. Symbols as in Figure 2.

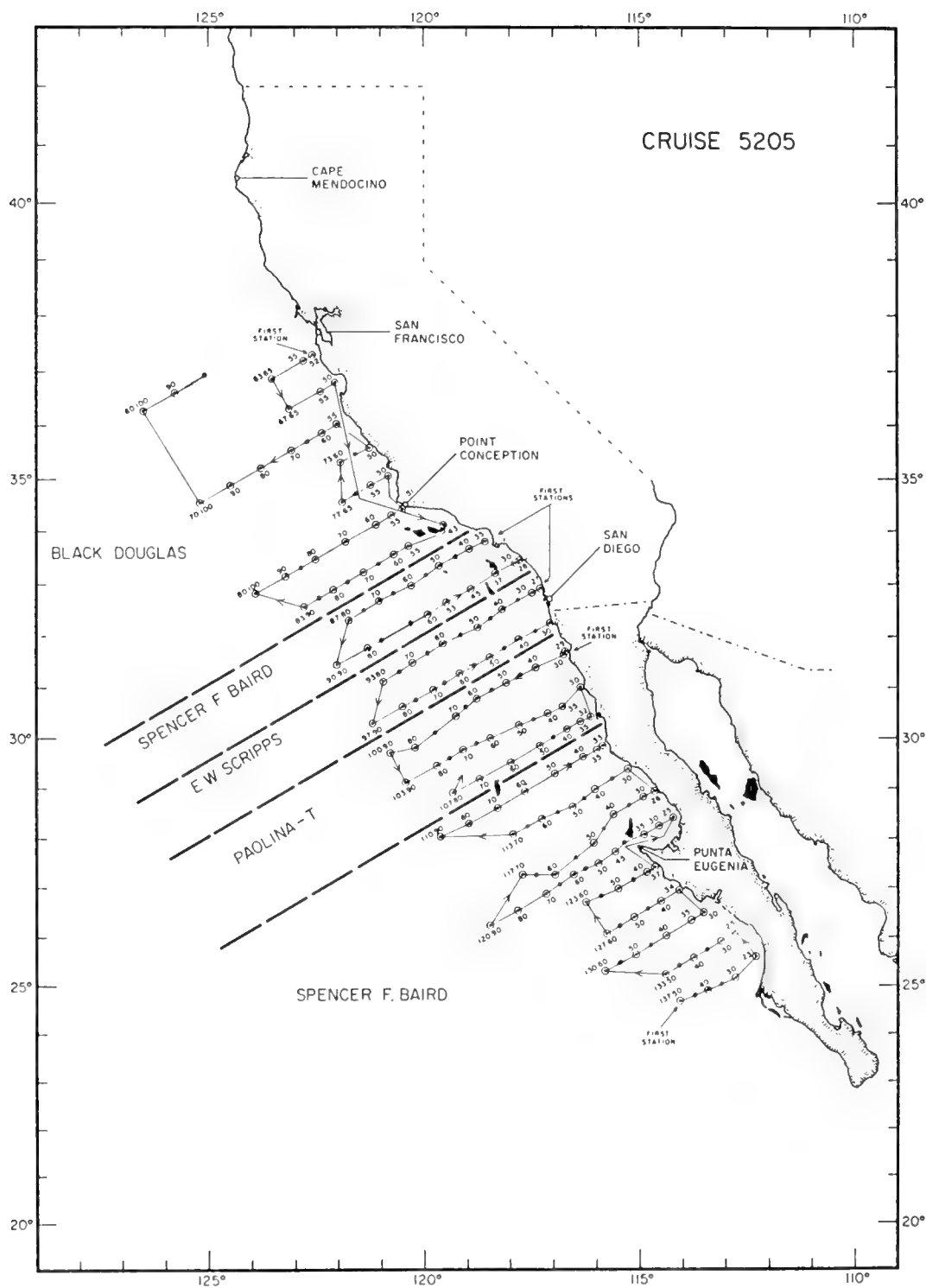


Figure 6. Station pattern for CalCOFI Cruise 5205. Symbols as in Figure 2.



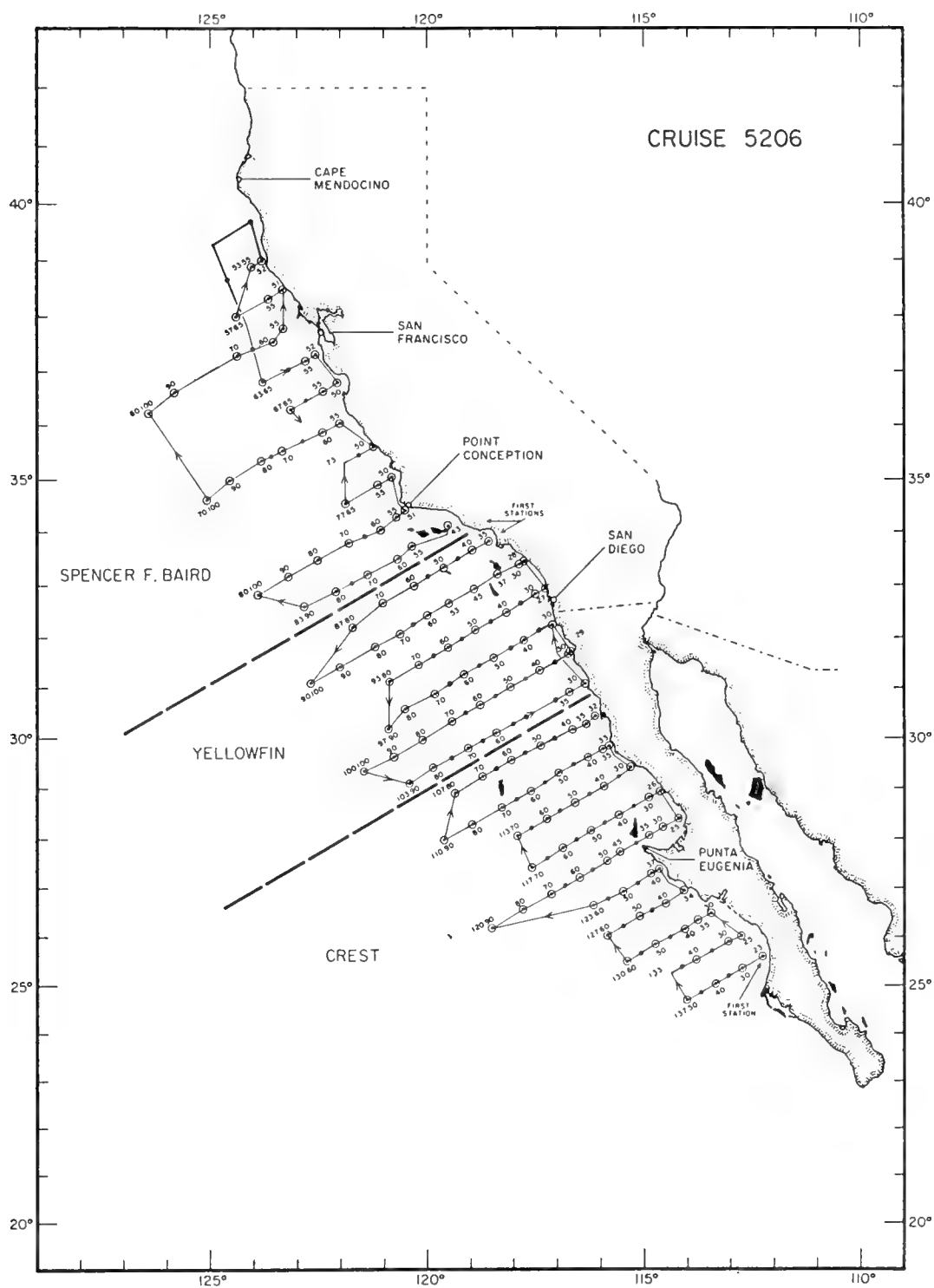


Figure 7. Station pattern for CalCOFI Cruise 5206. Symbols as in Figure 2.

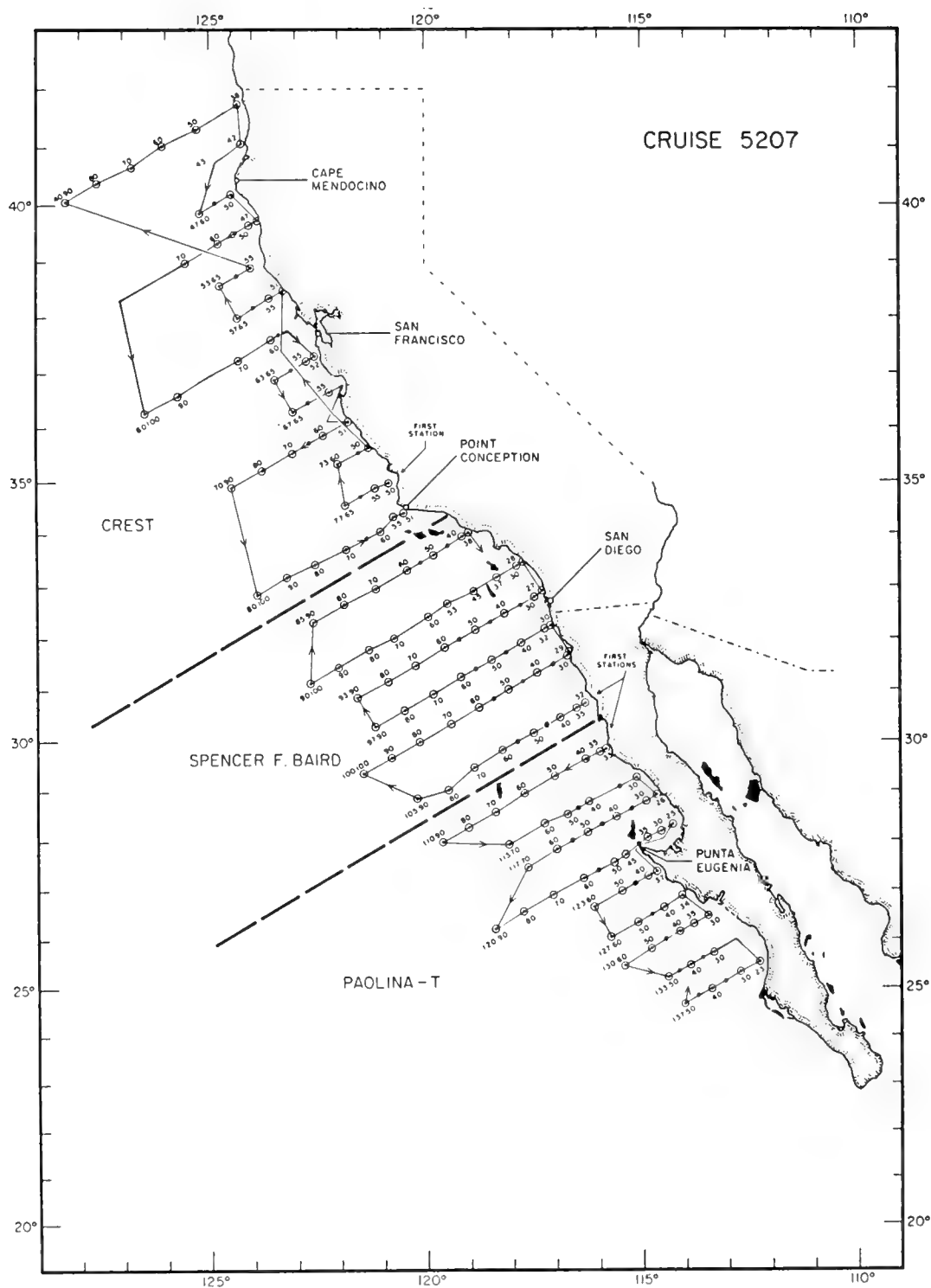


Figure 8. Station pattern for CalCOFI Cruise 5207. Symbols as in Figure 2.

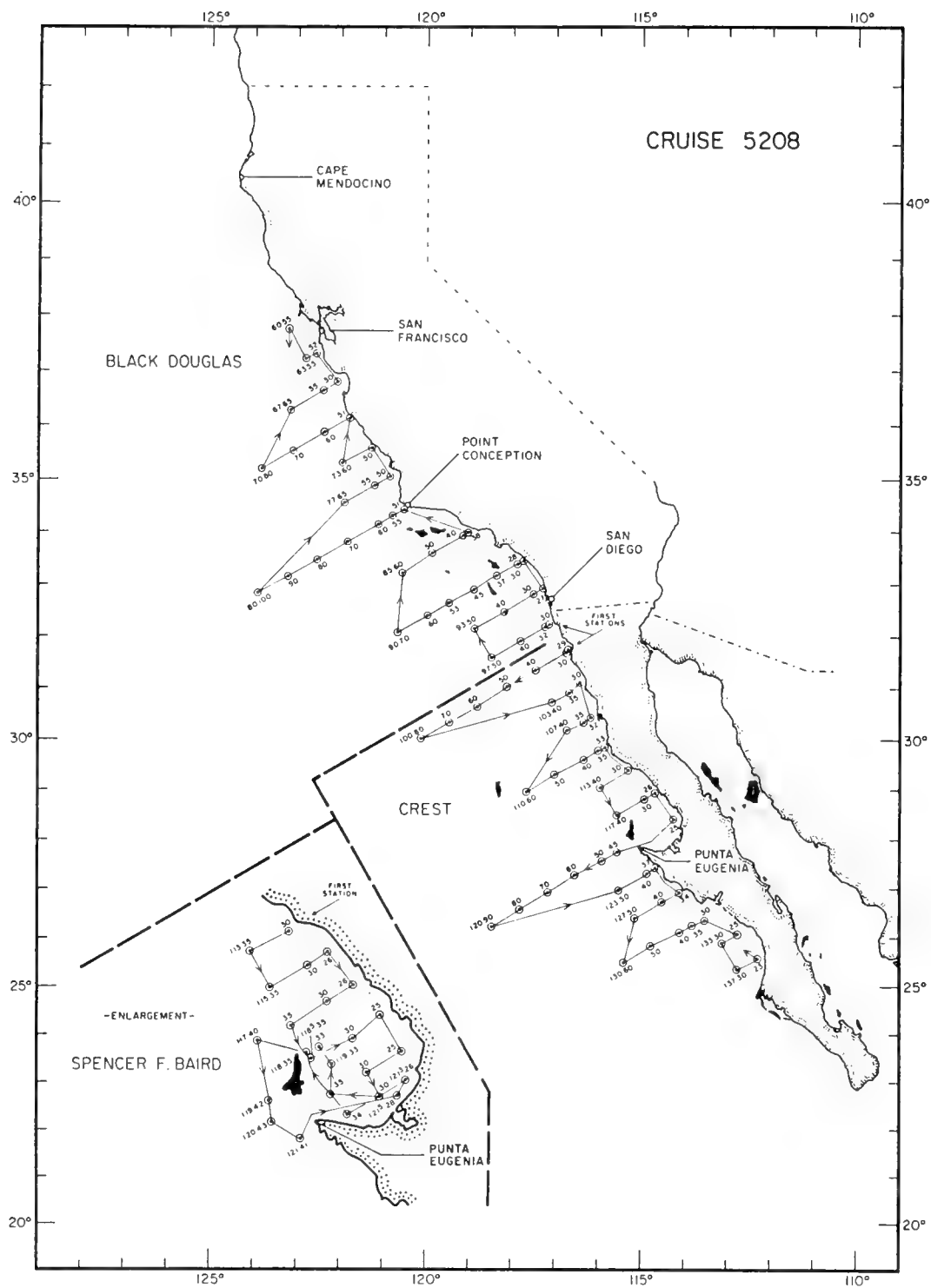


Figure 9. Station pattern for CalCOFI Cruise 5208. Symbols as in Figure 2.



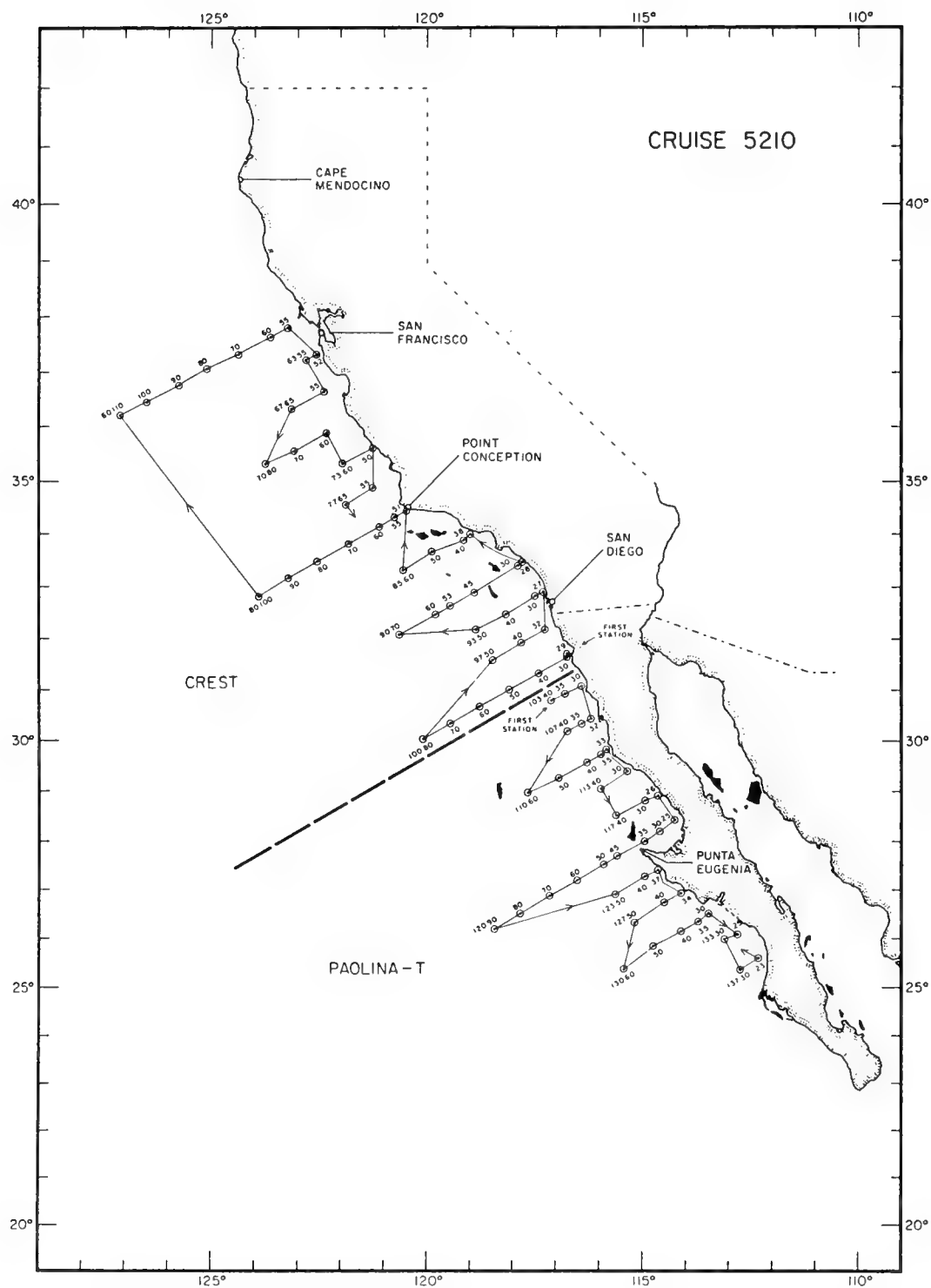


Figure 11. Station pattern for CalCOFI Cruise 5210. Symbols as in Figure 2.

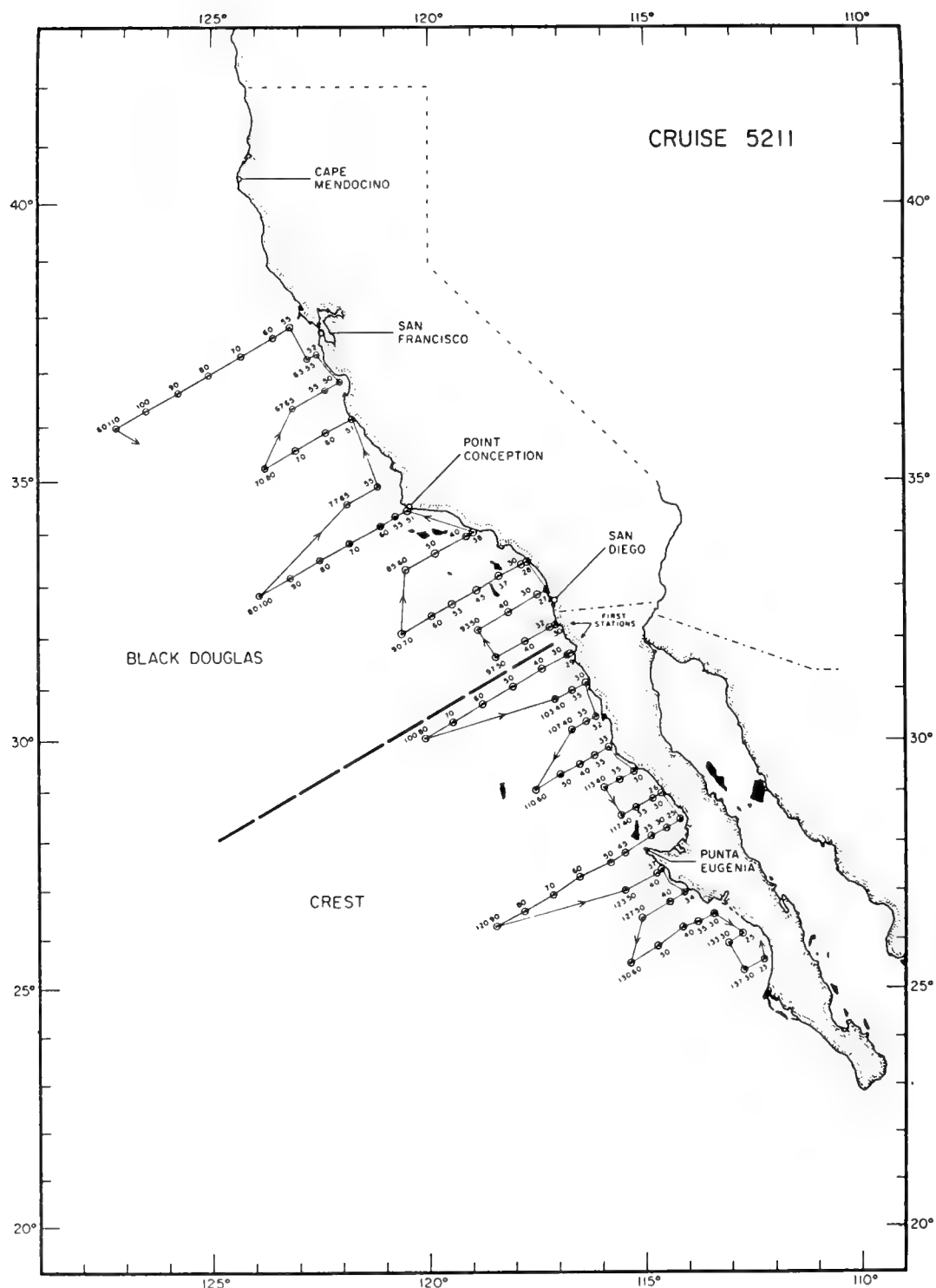


Figure 12. Station pattern for CalCOFI Cruise 5211. Symbols as in Figure 2.

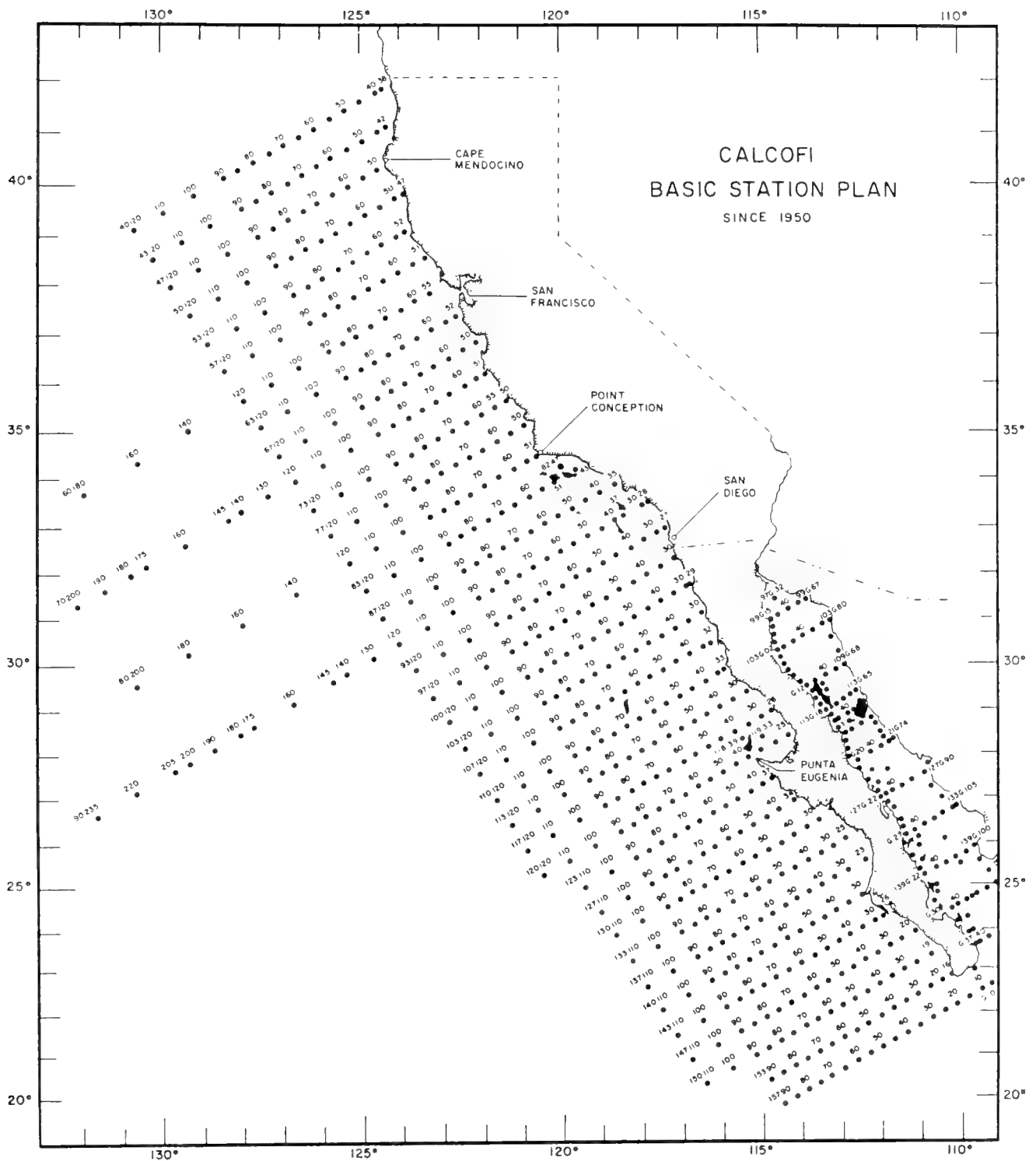


Figure 13. The basic station plan for CalCOFI cruises from 1950 to the present.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1952. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

| CalCOFI Cruise 5201 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 80.0                | 51.0    | 34 26.5              | 120 32.5              | BD           | 52 01 26                | 0404          | 46                  | 333                                  | 1.38                            | 100.0             | 102             | 0             |
| 80.0                | 55.0    | 34 19.0              | 120 48.3              | BD           | 52 01 26                | 0626          | 134                 | 522                                  | 2.57                            | 50.0              | 117             | 204           |
| 80.0                | 60.0    | 34 09.7              | 121 09.0              | BD           | 52 01 26                | 0956          | 133                 | 530                                  | 2.51                            | 50.0              | 8               | 86            |
| 80.0                | 70.0    | 33 49.3              | 121 50.1              | BD           | 52 01 26                | 1632          | 142                 | 484                                  | 2.92                            | 100.0             | 15              | 196           |
| 80.0                | 80.0    | 33 29.0              | 122 33.0              | BD           | 52 01 26                | 2206          | 132                 | 507                                  | 2.60                            | 50.0              | 17              | 48            |
| 80.0                | 90.0    | 33 08.5              | 123 13.0              | BD           | 52 01 27                | 0451          | 135                 | 521                                  | 2.60                            | 100.0             | 26              | 85            |
| 80.0                | 100.0   | 32 47.0              | 123 55.0              | BD           | 52 01 27                | 1056          | 134                 | 515                                  | 2.60                            | 100.0             | 15              | 25            |
| 80.0                | 110.0   | 32 24.0              | 124 39.0              | BD           | 52 01 27                | 1748          | 136                 | 560                                  | 2.42                            | 100.0             | 1               | 2             |
| 85.0                | 38.0    | 34 01.3              | 119 03.0              | BD           | 52 01 25                | 1829          | 50                  | 445                                  | 1.12                            | 100.0             | 149             | 5             |
| 85.0                | 40.0    | 33 56.9              | 119 10.6              | BD           | 52 01 25                | 1611          | 139                 | 550                                  | 2.53                            | 50.0              | 106             | 1908          |
| 85.0                | 50.0    | 33 36.5              | 119 53.6              | BD           | 52 01 25                | 1046          | 139                 | 514                                  | 2.71                            | 100.0             | 36              | 750           |
| 85.0                | 60.0    | 33 17.0              | 120 33.0              | BD           | 52 01 25                | 0451          | 136                 | 510                                  | 2.66                            | 50.0              | 161             | 39            |
| 85.0                | 70.0    | 32 57.0              | 121 14.0              | BD           | 52 01 24                | 2255          | 136                 | 524                                  | 2.61                            | 100.0             | 24              | 34            |
| 90.0                | 28.0    | 33 28.5              | 117 46.7              | BD           | 52 01 22                | 1511          | 136                 | 602                                  | 2.26                            | 100.0             | 79              | 2775          |
| 90.0                | 30.0    | 33 24.0              | 117 55.0              | BD           | 52 01 22                | 1617          | 132                 | 546                                  | 2.42                            | 100.0             | 109             | 5008          |
| 90.0                | 37.0    | 33 11.0              | 118 24.0              | BD           | 52 01 22                | 2041          | 135                 | 548                                  | 2.46                            | 100.0             | 78              | 1799          |
| 90.0                | 45.0    | 32 54.5              | 118 56.0              | BD           | 52 01 23                | 0255          | 135                 | 562                                  | 2.40                            | 100.0             | 58              | 457           |
| 90.0                | 53.0    | 32 38.5              | 119 29.0              | BD           | 52 01 23                | 0811          | 134                 | 576                                  | 2.32                            | 50.0              | 4               | 3             |
| 90.0                | 60.0    | 32 26.0              | 119 57.5              | BD           | 52 01 23                | 1231          | 134                 | 571                                  | 2.35                            | 100.0             | 1               | 0             |
| 90.0                | 70.0    | 32 04.5              | 120 39.0              | BD           | 52 01 23                | 1851          | 136                 | 551                                  | 2.46                            | 100.0             | 3               | 22            |
| 90.0                | 80.0    | 31 45.0              | 121 19.0              | BD           | 52 01 24                | 0046          | 136                 | 552                                  | 2.47                            | 100.0             | 17              | 5             |
| 90.0                | 90.0    | 31 25.5              | 121 58.0              | BD           | 52 01 24                | 0806          | 145                 | 510                                  | 2.84                            | 100.0             | 3               | 4             |
| 93.0                | 27.0    | 32 56.0              | 117 19.5              | BD           | 52 01 22                | 0855          | 133                 | 633                                  | 2.11                            | 100.0             | 67              | 25            |
| 93.0                | 30.0    | 32 50.0              | 117 31.5              | BD           | 52 01 22                | 0451          | 122                 | 622                                  | 1.96                            | 100.0             | 80              | 4368          |
| 93.0                | 40.0    | 32 30.5              | 118 07.8              | BD           | 52 01 21                | 2315          | 136                 | 567                                  | 2.40                            | 100.0             | 62              | 2308          |
| 93.0                | 50.0    | 32 15.0              | 118 55.0              | BD           | 52 01 21                | 1616          | 131                 | 562                                  | 2.34                            | 100.0             | 25              | 21            |
| 93.0                | 60.0    | 31 47.0              | 120 14.0              | BD           | 52 01 21                | 0854          | 142                 | 540                                  | 2.63                            | 100.0             | 5               | 28            |
| 93.0                | 70.0    | 31 29.0              | 120 14.0              | BD           | 52 01 21                | 0206          | 138                 | 538                                  | 2.56                            | 100.0             | 8               | 1             |
| 97.0                | 30.0    | 32 15.4              | 117 08.8              | BD           | 52 01 19                | 1559          | 41                  | 318                                  | 1.28                            | 100.0             | 13              | 1             |
| 97.0                | 32.0    | 32 11.5              | 117 17.0              | BD           | 52 01 19                | 1737          | 138                 | 574                                  | 2.41                            | 100.0             | 39              | 741           |
| 97.0                | 40.0    | 31 55.0              | 117 50.0              | BD           | 52 01 19                | 2326          | 150                 | 496                                  | 3.03                            | 100.0             | 7               | 25            |
| 97.0                | 50.0    | 31 34.8              | 118 29.0              | BD           | 52 01 20                | 0550          | 140                 | 548                                  | 2.56                            | 100.0             | 7               | 11            |
| 97.0                | 60.0    | 31 15.0              | 119 13.0              | BD           | 52 01 20                | 1256          | 134                 | 580                                  | 2.30                            | 100.0             | 4               | 151           |
| 97.0                | 70.0    | 30 55.0              | 119 51.0              | BD           | 52 01 20                | 1926          | 139                 | 538                                  | 2.58                            | 100.0             | 14              | 4             |
| 100.0               | 29.0    | 31 42.2              | 116 43.4              | BD           | 52 01 18                | 1957          | 51                  | 411                                  | 1.24                            | 100.0             | 22              | 71            |
| 100.0               | 40.0    | 31 19.0              | 117 23.0              | HO           | 52 01 18                | 1535          | 147                 | 456                                  | 3.23                            | 100.0             | 5               | 15            |
| 100.0               | 70.0    | 30 21.0              | 119 27.0              | HO           | 52 01 17                | 2255          | 101                 | 637                                  | 1.58                            | 100.0             | 17              | 10            |
| 100.0               | 80.0    | 30 01.0              | 120 07.0              | HO           | 52 01 17                | 1740          | 88                  | 676                                  | 1.30                            | 100.0             | 8               | 27            |
| 100.0               | 90.0    | 29 40.3              | 120 47.0              | HO           | 52 01 17                | 1230          | 111                 | 630                                  | 1.76                            | 100.0             | 10              | 4             |
| 105.0               | 32.0    | 30 44.7              | 116 21.3              | HO           | 52 01 16                | 0110          | 55                  | 490                                  | 1.13                            | 100.0             | 92              | 1             |
| 105.0               | 35.0    | 30 38.4              | 116 33.5              | HO           | 52 01 16                | 0335          | 124                 | 583                                  | 2.11                            | 100.0             | 13              | 48            |
| 105.0               | 40.0    | 30 28.8              | 116 54.0              | HO           | 52 01 16                | 0705          | 130                 | 518                                  | 2.51                            | 100.0             | 4               | 39            |
| 105.0               | 50.0    | 30 12.7              | 117 27.0              | HO           | 52 01 16                | 1215          | 141                 | 480                                  | 2.94                            | 100.0             | 0               | 8             |
| 105.0               | 60.0    | 29 48.5              | 118 14.0              | HO           | 52 01 16                | 1810          | 140                 | 495                                  | 2.83                            | 100.0             | 13              | 4             |



TABLE 1. (cont.)

## CalCOFI Cruise 5201

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 105.0 | 70.0    | 29 29.0               | 118 54.0               | HO           | 52 01 16                | 2320          | 134                 | 503                                  | 2.66                            | 100.0             | 3               | 15            |
| 105.0 | 80.0    | 29 07.2               | 119 35.0               | HO           | 52 01 17                | 0430          | 125                 | 518                                  | 2.42                            | 100.0             | 5               | 17            |
| 110.0 | 33.0    | 29 51.0               | 115 52.0               | CR           | 52 01 09                | 1009          | 33                  | 274                                  | 1.22                            | 100.0             | 26              | 131           |
| 110.0 | 35.0    | 29 47.0               | 116 00.0               | CR           | 52 01 09                | 1256          | 135                 | 496                                  | 2.73                            | 100.0             | 3               | 18            |
| 110.0 | 40.0    | 29 37.0               | 116 19.5               | CR           | 52 01 09                | 1720          | 139                 | 484                                  | 2.87                            | 100.0             | 6               | 1             |
| 110.0 | 50.0    | 29 17.0               | 116 59.0               | CR           | 52 01 09                | 2326          | 139                 | 490                                  | 2.83                            | 100.0             | 8               | 5             |
| 110.0 | 70.0    | 28 36.0               | 118 18.0               | CR           | 52 01 10                | 2041          | 136                 | 484                                  | 2.80                            | 100.0             | 10              | 15            |
| 110.0 | 80.0    | 28 18.0               | 118 54.0               | CR           | 52 01 11                | 0156          | 142                 | 432                                  | 3.28                            | 100.0             | 64              | 27            |
| 110.0 | 90.0    | 28 00.0               | 119 28.0               | CR           | 52 01 11                | 0607          | 140                 | 440                                  | 2.17                            | 100.0             | 12              | 27            |
| 115.0 | 27.0    | 29 12.0               | 114 56.0               | CR           | 52 01 12                | 1609          | 40                  | 262                                  | 1.54                            | 100.0             | 346             | 321           |
| 115.0 | 35.0    | 28 58.0               | 115 28.0               | CR           | 52 01 12                | 1226          | 136                 | 466                                  | 2.92                            | 100.0             | 2               | 5             |
| 115.0 | 40.0    | 28 45.0               | 115 47.0               | CR           | 52 01 12                | 0921          | 130                 | 510                                  | 2.56                            | 100.0             | 3               | 1             |
| 115.0 | 50.0    | 28 21.0               | 116 24.0               | CR           | 52 01 12                | 0411          | 140                 | 455                                  | 3.09                            | 100.0             | 9               | 2             |
| 115.0 | 60.0    | 28 05.0               | 117 05.0               | CR           | 52 01 11                | 2251          | 142                 | 456                                  | 3.12                            | 100.0             | 6               | 1             |
| 115.0 | 70.0    | 27 45.0               | 117 44.0               | CR           | 52 01 11                | 1720          | 136                 | 450                                  | 3.03                            | 100.0             | 1               | 13            |
| 120.0 | 25.0    | 28 22.5               | 114 15.5               | CR           | 52 01 12                | 2248          | 34                  | 241                                  | 1.41                            | 100.0             | 77              | 938           |
| 120.0 | 30.0    | 28 13.0               | 114 34.0               | CR           | 52 01 13                | 0113          | 56                  | 340                                  | 1.64                            | 100.0             | 13              | 373           |
| 120.0 | 35.0    | 28 03.0               | 114 54.0               | CR           | 52 01 13                | 0344          | 40                  | 233                                  | 1.73                            | 100.0             | 159             | 295           |
| 120.0 | 45.0    | 27 43.0               | 115 33.0               | CR           | 52 01 13                | 0856          | 131                 | 504                                  | 2.60                            | 100.0             | 23              | 60            |
| 120.0 | 50.0    | 27 32.0               | 115 52.0               | CR           | 52 01 13                | 1206          | 147                 | 467                                  | 3.15                            | 100.0             | 6               | 14            |
| 120.0 | 60.0    | 27 12.0               | 116 31.0               | CR           | 52 01 13                | 1711          | 152                 | 425                                  | 3.58                            | 100.0             | 3               | 0             |
| 120.0 | 70.0    | 26 52.0               | 117 10.0               | CR           | 52 01 13                | 2306          | 146                 | 460                                  | 3.18                            | 100.0             | 14              | 10            |
| 120.0 | 80.0    | 26 32.0               | 117 49.0               | CR           | 52 01 14                | 0422          | 141                 | 448                                  | 3.15                            | 100.0             | 56              | 16            |
| 120.0 | 90.0    | 26 10.0               | 118 35.0               | CR           | 52 01 14                | 0956          | 154                 | 434                                  | 3.54                            | 100.0             | 40              | 78            |
| 123.0 | 37.0    | 27 23.0               | 114 42.0               | CR           | 52 01 15                | 2258          | 48                  | 317                                  | 1.53                            | 100.0             | 182             | 388           |
| 123.0 | 40.0    | 27 22.5               | 114 48.0               | CR           | 52 01 15                | 1128          | 74                  | 383                                  | 1.93                            | 100.0             | 10              | 214           |
| 123.0 | 50.0    | 27 03.0               | 115 34.0               | CR           | 52 01 15                | 0607          | 145                 | 469                                  | 3.09                            | 100.0             | 27              | 23            |
| 123.0 | 60.0    | 26 38.0               | 116 09.0               | CR           | 52 01 15                | 0001          | 145                 | 486                                  | 2.98                            | 100.0             | 13              | 14            |
| 127.0 | 34.0    | 26 55.5               | 114 05.0               | CR           | 52 01 16                | 0349          | 37                  | 241                                  | 1.52                            | 100.0             | 70              | 85            |
| 127.0 | 40.0    | 26 46.0               | 114 29.0               | CR           | 52 01 16                | 0811          | 148                 | 493                                  | 3.01                            | 100.0             | 13              | 40            |
| 127.0 | 50.0    | 26 21.0               | 115 07.0               | CR           | 52 01 16                | 1321          | 139                 | 471                                  | 2.96                            | 100.0             | 20              | 16            |
| 127.0 | 60.0    | 26 00.0               | 115 44.0               | CR           | 52 01 16                | 1927          | 138                 | 447                                  | 3.09                            | 100.0             | 80              | 51            |
| 130.0 | 30.0    | 26 15.0               | 113 23.0               | CR           | 52 01 18                | 1324          | 36                  | 213                                  | 1.67                            | 100.0             | 188             | 863           |
| 130.0 | 35.0    | 26 10.0               | 113 34.0               | CR           | 52 01 18                | 1123          | 68                  | 424                                  | 1.61                            | 100.0             | 12              | 1200          |
| 130.0 | 40.0    | 26 10.5               | 114 07.0               | CR           | 52 01 18                | 0722          | 137                 | 463                                  | 2.97                            | 50.0              | 58              | 88            |
| 130.0 | 50.0    | 25 49.0               | 114 46.0               | CR           | 52 01 17                | 2331          | 147                 | 483                                  | 3.03                            | 100.0             | 22              | 81            |
| 130.0 | 60.0    | 25 29.0               | 115 24.0               | CR           | 52 01 17                | 1811          | 143                 | 476                                  | 3.01                            | 100.0             | 58              | 24            |
| 130.0 | 70.0    | 24 54.0               | 116 11.0               | CR           | 52 01 17                | 1111          | 142                 | 488                                  | 2.90                            | 100.0             | 19              | 21            |
| 130.0 | 80.0    | 24 35.0               | 116 46.0               | CR           | 52 01 17                | 0547          | 142                 | 444                                  | 3.20                            | 100.0             | 117             | 72            |
| 133.0 | 25.0    | 25 59.0               | 112 55.0               | CR           | 52 01 18                | 1628          | 70                  | 391                                  | 1.80                            | 100.0             | 111             | 88            |
| 133.0 | 30.0    | 25 55.0               | 113 03.0               | CR           | 52 01 18                | 1853          | 73                  | 392                                  | 1.86                            | 100.0             | 30              | 4             |
| 133.0 | 40.0    | 25 35.0               | 113 45.0               | CR           | 52 01 19                | 0045          | 148                 | 438                                  | 3.39                            | 50.0              | 219             | 776           |
| 133.0 | 50.0    | 25 19.5               | 114 24.0               | CR           | 52 01 19                | 0617          | 145                 | 447                                  | 3.24                            | 100.0             | 172             | 28            |
| 133.0 | 60.0    | 24 51.0               | 115 00.0               | CR           | 52 01 19                | 1136          | 153                 | 450                                  | 3.41                            | 100.0             | 28              | 65            |
| 137.0 | 23.0    | 25 36.0               | 112 19.0               | CR           | 52 01 20                | 1203          | 56                  | 356                                  | 1.57                            | 100.0             | 45              | 347           |

TABLE 1. (cont.)

| CalCOFI Cruise 5201 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 137.0               | 30.0    | 25 23.0              | 112 45.0              | CR           | 52 01 20                | 0913          | 80                  | 350                                  | 2.29                            | 100.0             | 180             | 31            |
| 137.0               | 40.0    | 25 00.0              | 113 23.5              | CR           | 52 01 20                | 0234          | 147                 | 444                                  | 3.30                            | 100.0             | 158             | 518           |
| 137.0               | 50.0    | 24 41.0              | 114 01.5              | CR           | 52 01 19                | 2216          | 145                 | 507                                  | 2.87                            | 100.0             | 30              | 13            |
| 137.0               | 60.0    | 24 20.0              | 114 40.0              | CR           | 52 01 19                | 0437          | 143                 | 444                                  | 3.22                            | 100.0             | 28              | 95            |

TABLE 1. (cont.)

## CalCOFI Cruise 5202

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 80.0  | 51.0    | 34 26.8              | 120 33.3              | HO           | 52 02 20                | 0453          | 62                  | 480                                  | 1.30                            | 25.0              | 16              | 7             |
| 80.0  | 55.0    | 34 19.3              | 120 48.5              | HO           | 52 02 20                | 0736          | 132                 | 534                                  | 2.48                            | 12.0              | 4               | 15            |
| 80.0  | 60.0    | 34 09.5              | 121 09.9              | HO           | 52 02 20                | 1116          | 140                 | 502                                  | 2.78                            | 100.0             | 34              | 174           |
| 80.0  | 70.0    | 33 50.0              | 121 50.7              | HO           | 52 02 20                | 1646          | 132                 | 518                                  | 2.56                            | 100.0             | 7               | 39            |
| 80.0  | 80.0    | 33 30.6              | 122 32.5              | HO           | 52 02 20                | 2226          | 141                 | 488                                  | 2.88                            | 100.0             | 54              | 25            |
| 80.0  | 90.0    | 33 09.0              | 123 13.0              | HO           | 52 02 21                | 0531          | 129                 | 572                                  | 2.25                            | 100.0             | 172             | 40            |
| 80.0  | 100.0   | 32 53.1              | 123 54.1              | HO           | 52 02 21                | 1036          | 138                 | 497                                  | 2.78                            | 100.0             | 6               | 30            |
| 85.0  | 38.0    | 34 02.0              | 119 02.0              | HO           | 52 02 19                | 2103          | 67                  | 441                                  | 1.52                            | 100.0             | 620             | 161           |
| 85.0  | 40.0    | 33 57.0              | 119 10.0              | HO           | 52 02 19                | 1931          | 135                 | 544                                  | 2.48                            | 100.0             | 287             | 31            |
| 85.0  | 50.0    | 33 37.0              | 119 52.5              | HO           | 52 02 19                | 1231          | 135                 | 625                                  | 1.87                            | 100.0             | 389             | 146           |
| 85.0  | 60.0    | 33 19.0              | 120 32.0              | HO           | 52 02 19                | 0711          | 141                 | 450                                  | 3.15                            | 100.0             | 77              | 28            |
| 85.0  | 70.0    | 32 58.0              | 121 14.0              | HO           | 52 02 19                | 0206          | 121                 | 535                                  | 2.27                            | 100.0             | 561             | 360           |
| 90.0  | 28.0    | 33 28.5              | 117 46.5              | HO           | 52 02 16                | 1831          | 141                 | 506                                  | 2.79                            | 100.0             | 54              | 64            |
| 90.0  | 30.0    | 33 24.4              | 117 56.0              | HO           | 52 02 16                | 2051          | 139                 | 538                                  | 2.58                            | 100.0             | 152             | 643           |
| 90.0  | 37.0    | 33 11.0              | 118 23.5              | HO           | 52 02 17                | 0116          | 139                 | 484                                  | 2.88                            | 100.0             | 459             | 450           |
| 90.0  | 45.0    | 32 54.5              | 118 56.5              | HO           | 52 02 17                | 0715          | 138                 | 514                                  | 2.69                            | 100.0             | 44              | 175           |
| 90.0  | 53.0    | 32 39.7              | 119 29.0              | HO           | 52 02 17                | 1421          | 140                 | 467                                  | 3.00                            | 25.0              | 919             | 517           |
| 90.0  | 60.0    | 32 25.0              | 119 56.0              | HO           | 52 02 17                | 2006          | 131                 | 526                                  | 2.49                            | 100.0             | 188             | 286           |
| 90.0  | 70.0    | 32 04.5              | 120 39.0              | HO           | 52 02 18                | 0235          | 142                 | 506                                  | 2.81                            | 100.0             | 23              | 16            |
| 90.0  | 80.0    | 31 45.0              | 121 17.0              | HO           | 52 02 18                | 0911          | 140                 | 451                                  | 3.10                            | 100.0             | 9               | 170           |
| 90.0  | 90.0    | 31 25.0              | 121 58.5              | HO           | 52 02 18                | 1506          | 137                 | 516                                  | 2.66                            | 100.0             | 4               | 135           |
| 93.0  | 27.0    | 32 56.0              | 117 19.0              | HO           | 52 02 11                | 1238          | 63                  | 455                                  | 1.39                            | 100.0             | 7               | 113           |
| 93.0  | 30.0    | 32 52.6              | 117 34.3              | HO           | 52 02 11                | 1021          | 124                 | 596                                  | 2.07                            | 100.0             | 24              | 123           |
| 93.0  | 40.0    | 32 30.0              | 118 12.2              | HO           | 52 02 11                | 0556          | 128                 | 530                                  | 2.41                            | 100.0             | 316             | 918           |
| 93.0  | 50.0    | 32 10.0              | 118 52.8              | HO           | 52 02 11                | 0031          | 141                 | 488                                  | 2.89                            | 100.0             | 35              | 100           |
| 93.0  | 60.0    | 31 48.3              | 119 35.0              | HO           | 52 02 10                | 1846          | 137                 | 502                                  | 2.74                            | 100.0             | 80              | 327           |
| 93.0  | 70.0    | 31 28.0              | 120 15.0              | HO           | 52 02 10                | 1321          | 149                 | 447                                  | 3.34                            | 50.0              | 0               | 22232         |
| 97.0  | 30.0    | 32 15.2              | 117 08.5              | HO           | 52 02 09                | 0859          | 35                  | 326                                  | 1.07                            | 100.0             | 62              | 33            |
| 97.0  | 32.0    | 32 11.5              | 117 17.9              | HO           | 52 02 09                | 1146          | 137                 | 522                                  | 2.62                            | 100.0             | 38              | 387           |
| 97.0  | 40.0    | 31 58.0              | 117 50.5              | HO           | 52 02 09                | 1541          | 144                 | 490                                  | 2.93                            | 50.0              | 2               | 68            |
| 97.0  | 50.0    | 31 35.0              | 118 30.5              | HO           | 52 02 09                | 2146          | 147                 | 464                                  | 3.17                            | 100.0             | 52              | 4310          |
| 97.0  | 60.0    | 31 15.0              | 119 08.0              | HO           | 52 02 10                | 0351          | 111                 | 590                                  | 1.88                            | 100.0             | 51              | 686           |
| 97.0  | 70.0    | 30 56.2              | 119 50.5              | HO           | 52 02 10                | 0856          | 137                 | 477                                  | 2.87                            | 100.0             | 2               | 224           |
| 100.0 | 30.0    | 31 40.9              | 116 46.0              | HO           | 52 02 09                | 0441          | 124                 | 542                                  | 2.28                            | 100.0             | 183             | 74            |
| 100.0 | 40.0    | 31 20.6              | 117 24.0              | HO           | 52 02 08                | 2221          | 137                 | 505                                  | 2.71                            | 100.0             | 189             | 1339          |
| 100.0 | 50.0    | 30 56.1              | 118 04.1              | HO           | 52 02 08                | 1646          | 132                 | 527                                  | 2.51                            | 100.0             | 1               | 16            |
| 100.0 | 60.0    | 30 45.0              | 118 49.0              | HO           | 52 02 08                | 1106          | 131                 | 544                                  | 2.41                            | 100.0             | 5               | 114           |
| 100.0 | 70.0    | 30 12.1              | 119 13.0              | HO           | 52 02 08                | 0706          | 143                 | 505                                  | 2.83                            | 100.0             | 0               | 114           |
| 100.0 | 80.0    | 29 51.5              | 119 52.8              | HO           | 52 02 08                | 0021          | 139                 | 495                                  | 2.82                            | 100.0             | 9               | 428           |
| 100.0 | 90.0    | 29 30.0              | 120 33.1              | HO           | 52 02 07                | 1846          | 131                 | 554                                  | 2.36                            | 100.0             | 1               | 204           |
| 105.0 | 32.0    | 30 43.5              | 116 20.0              | HO           | 52 02 06                | 0428          | 68                  | 482                                  | 1.40                            | 100.0             | 41              | 239           |
| 105.0 | 35.0    | 30 38.2              | 116 33.0              | HO           | 52 02 06                | 0656          | 139                 | 505                                  | 2.76                            | 100.0             | 74              | 394           |
| 105.0 | 40.0    | 30 30.0              | 116 54.1              | HO           | 52 02 06                | 1116          | 142                 | 496                                  | 2.86                            | 100.0             | 9               | 140           |
| 105.0 | 50.0    | 30 06.5              | 117 32.0              | HO           | 52 02 06                | 1706          | 130                 | 535                                  | 2.44                            | 100.0             | 2               | 29            |
| 105.0 | 60.0    | 29 48.0              | 118 14.5              | HO           | 52 02 06                | 2251          | 144                 | 469                                  | 3.06                            | 100.0             | 6               | 1520          |

TABLE 1. (cont.)

| CalCOFI Cruise 5202 |         |                       |                        |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 105.0               | 70.0    | 29 26.3               | 119 07.0               | HO           | 52 02 07                | 0436          | 139                 | 512                                  | 2.72                            | 100.0             | 4               | 354           |
| 105.0               | 80.0    | 29 05.0               | 119 37.0               | HO           | 52 02 07                | 0956          | 141                 | 463                                  | 3.05                            | 100.0             | 14              | 58            |
| 110.0               | 33.0    | 29 51.0               | 115 53.0               | CR           | 52 02 06                | 1138          | 64                  | 467                                  | 1.38                            | 100.0             | 60              | 33            |
| 110.0               | 35.0    | 29 48.1               | 115 58.9               | CR           | 52 02 06                | 1416          | 136                 | 529                                  | 2.58                            | 50.0              | 180             | 1764          |
| 110.0               | 40.0    | 29 36.5               | 116 20.0               | CR           | 52 02 06                | 1746          | 131                 | 517                                  | 2.53                            | 100.0             | 8               | 68            |
| 110.0               | 50.0    | 29 16.0               | 116 59.0               | CR           | 52 02 06                | 2317          | 140                 | 457                                  | 3.07                            | 100.0             | 5               | 9             |
| 110.0               | 60.0    | 28 55.7               | 117 40.0               | CR           | 52 02 07                | 0451          | 135                 | 495                                  | 2.72                            | 100.0             | 1               | 14            |
| 110.0               | 70.0    | 28 36.5               | 118 18.0               | CR           | 52 02 07                | 1007          | 138                 | 453                                  | 3.06                            | 100.0             | 10              | 173           |
| 110.0               | 80.0    | 28 17.0               | 118 56.0               | CR           | 52 02 07                | 1516          | 135                 | 498                                  | 2.71                            | 100.0             | 8               | 10            |
| 110.0               | 90.0    | 27 56.5               | 119 36.0               | CR           | 52 02 07                | 2107          | 142                 | 448                                  | 3.18                            | 100.0             | 31              | 26            |
| 113.0               | 30.0    | 29 22.5               | 115 17.5               | CR           | 52 02 09                | 0733          | 29                  | 199                                  | 1.45                            | 100.0             | 323             | 61            |
| 113.0               | 35.0    | 29 12.0               | 115 39.0               | CR           | 52 02 09                | 0403          | 139                 | 468                                  | 2.98                            | 100.0             | 267             | 1408          |
| 113.0               | 40.0    | 29 05.0               | 115 59.5               | CR           | 52 02 09                | 0036          | 140                 | 467                                  | 3.00                            | 50.0              | 636             | 65            |
| 113.0               | 50.0    | 28 43.1               | 116 38.0               | CR           | 52 02 08                | 1921          | 140                 | 474                                  | 2.96                            | 100.0             | 12              | 4             |
| 113.0               | 60.0    | 28 23.0               | 117 16.6               | CR           | 52 02 08                | 1331          | 140                 | 498                                  | 2.80                            | 100.0             | 27              | 51            |
| 113.0               | 70.0    | 28 05.8               | 117 50.9               | CR           | 52 02 08                | 0857          | 133                 | 486                                  | 2.74                            | 100.0             | 1               | 110           |
| 117.0               | 26.0    | 28 56.0               | 114 41.0               | CR           | 52 02 09                | 1259          | 35                  | 227                                  | 1.55                            | 100.0             | 115             | 675           |
| 117.0               | 30.0    | 28 48.0               | 114 56.5               | CR           | 52 02 09                | 1444          | 44                  | 307                                  | 1.45                            | 100.0             | 138             | 269           |
| 117.0               | 35.0    | 28 38.0               | 115 16.0               | CR           | 52 02 09                | 1846          | 129                 | 505                                  | 2.55                            | 100.0             | 196             | 501           |
| 117.0               | 40.0    | 28 28.0               | 115 35.5               | CR           | 52 02 09                | 2226          | 139                 | 437                                  | 3.19                            | 100.0             | 43              | 26            |
| 117.0               | 50.0    | 28 08.0               | 116 15.0               | CR           | 52 02 10                | 0616          | 141                 | 447                                  | 2.95                            | 100.0             | 82              | 53            |
| 117.0               | 60.0    | 27 46.3               | 116 56.5               | CR           | 52 02 10                | 1137          | 141                 | 493                                  | 2.85                            | 100.0             | 4               | 0             |
| 117.0               | 70.0    | 27 24.0               | 117 32.0               | CR           | 52 02 10                | 1646          | 138                 | 486                                  | 2.84                            | 100.0             | 12              | 2             |
| 120.0               | 25.0    | 28 23.0               | 114 14.0               | CR           | 52 02 12                | 2104          | 34                  | 224                                  | 1.53                            | 100.0             | 33              | 1128          |
| 120.0               | 30.0    | 28 13.5               | 114 34.0               | CR           | 52 02 12                | 1748          | 56                  | 311                                  | 1.79                            | 100.0             | 153             | 2139          |
| 120.0               | 35.0    | 28 02.5               | 114 55.0               | CR           | 52 02 12                | 1418          | 54                  | 255                                  | 2.10                            | 100.0             | 221             | 458           |
| 120.0               | 45.0    | 27 43.0               | 115 33.0               | CR           | 52 02 12                | 0852          | 144                 | 422                                  | 3.41                            | 100.0             | 308             | 762           |
| 120.0               | 50.0    | 27 30.8               | 115 52.7               | CR           | 52 02 12                | 0356          | 144                 | 493                                  | 2.92                            | 100.0             | 51              | 17            |
| 120.0               | 60.0    | 27 13.0               | 116 32.0               | CR           | 52 02 11                | 2154          | 134                 | 520                                  | 2.57                            | 100.0             | 12              | 28            |
| 120.0               | 70.0    | 26 52.0               | 117 10.0               | CR           | 52 02 11                | 1551          | 143                 | 488                                  | 2.94                            | 100.0             | 6               | 22            |
| 120.0               | 80.0    | 26 35.0               | 117 50.0               | CR           | 52 02 11                | 0957          | 141                 | 481                                  | 2.93                            | 100.0             | 16              | 40            |
| 120.0               | 90.0    | 26 14.0               | 118 31.0               | CR           | 52 02 11                | 0401          | 138                 | 489                                  | 2.83                            | 100.0             | 17              | 239           |
| 123.0               | 37.0    | 27 23.0               | 114 41.0               | CR           | 52 02 14                | 0819          | 52                  | 295                                  | 1.76                            | 100.0             | 135             | 145           |
| 123.0               | 40.0    | 27 19.0               | 114 51.0               | CR           | 52 02 14                | 0521          | 145                 | 497                                  | 2.92                            | 100.0             | 304             | 270           |
| 123.0               | 50.0    | 27 01.0               | 115 32.0               | CR           | 52 02 13                | 2247          | 145                 | 422                                  | 3.45                            | 100.0             | 28              | 34            |
| 123.0               | 60.0    | 26 44.0               | 116 05.0               | CR           | 52 02 13                | 1701          | 131                 | 496                                  | 2.63                            | 100.0             | 8               | 90            |
| 127.0               | 60.0    | 26 00.0               | 115 48.0               | BD           | 52 02 22                | 1751          | 142                 | 497                                  | 2.86                            | 100.0             | 15              | 25            |
| 130.0               | 30.0    | 26 29.0               | 113 29.0               | BD           | 52 02 20                | 2214          | 53                  | 335                                  | 1.59                            | 100.0             | 94              | 663           |
| 130.0               | 35.0    | 26 18.5               | 113 49.5               | BD           | 52 02 21                | 1356          | 142                 | 493                                  | 2.87                            | 100.0             | 15              | 75            |
| 130.0               | 40.0    | 26 09.0               | 114 07.5               | BD           | 52 02 21                | 1717          | 143                 | 445                                  | 3.20                            | 100.0             | 26              | 637           |
| 130.0               | 50.0    | 25 49.0               | 114 46.0               | BD           | 52 02 21                | 2356          | 140                 | 478                                  | 2.93                            | 100.0             | 52              | 18            |
| 130.0               | 60.0    | 25 29.0               | 115 24.0               | BD           | 52 02 22                | 0816          | 146                 | 499                                  | 2.92                            | 100.0             | 10              | 56            |
| 133.0               | 25.0    | 26 04.5               | 112 48.0               | BD           | 52 02 20                | 1654          | 56                  | 372                                  | 1.51                            | 100.0             | 270             | 88            |
| 133.0               | 30.0    | 25 54.5               | 113 09.0               | BD           | 52 02 20                | 1312          | 144                 | 497                                  | 2.90                            | 100.0             | 7               | 7             |
| 133.0               | 40.0    | 25 34.5               | 113 45.5               | BD           | 52 02 20                | 0652          | 141                 | 495                                  | 2.85                            | 100.0             | 90              | 1497          |

TABLE 1. (cont.)

| CalCOFI Cruise 5202 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 137.0               | 23.0    | 25 34.2              | 112 18.7              | BD           | 52 02 18                | 1432          | 70                  | 274                                  | 2.57                            | 100.0             | 248             | 169           |
| 137.0               | 30.0    | 25 20.0              | 112 45.5              | BD           | 52 02 18                | 1811          | 130                 | 590                                  | 2.20                            | 100.0             | 343             | 6             |
| 137.0               | 40.0    | 25 03.4              | 113 25.8              | BD           | 52 02 19                | 0426          | 132                 | 514                                  | 2.57                            | 100.0             | 39              | 250           |
| 137.0               | 50.0    | 24 40.0              | 114 02.0              | BD           | 52 02 19                | 1356          | 149                 | 454                                  | 3.29                            | 100.0             | 30              | 430           |
| 140.0               | 30.0    | 24 45.5              | 112 24.0              | BD           | 52 02 16                | 0848          | 100                 | 405                                  | 2.47                            | 100.0             | 62              | 46            |
| 140.0               | 35.0    | 24 36.0              | 112 43.0              | BD           | 52 02 16                | 0501          | 137                 | 512                                  | 2.68                            | 100.0             | 154             | 2000          |
| 140.0               | 40.0    | 24 25.5              | 113 02.0              | BD           | 52 02 16                | 0101          | 144                 | 476                                  | 3.03                            | 100.0             | 193             | 587           |
| 140.0               | 50.0    | 24 05.0              | 113 39.5              | BD           | 52 02 15                | 1841          | 138                 | 506                                  | 2.73                            | 100.0             | 218             | 38            |
| 143.0               | 26.0    | 24 19.0              | 111 48.0              | BD           | 52 02 15                | 0223          | 58                  | 358                                  | 1.63                            | 100.0             | 50              | 253           |
| 143.0               | 30.0    | 24 11.0              | 112 03.0              | BD           | 52 02 15                | 0541          | 140                 | 488                                  | 2.87                            | 100.0             | 39              | 2878          |
| 143.0               | 35.0    | 23 59.0              | 112 18.5              | BD           | 52 02 15                | 0917          | 136                 | 502                                  | 2.70                            | 100.0             | 9               | 73            |
| 147.0               | 20.0    | 23 56.0              | 111 03.5              | BD           | 52 02 14                | 1928          | 65                  | 477                                  | 1.37                            | 100.0             | 351             | 12            |
| 147.0               | 25.0    | 23 46.8              | 111 23.0              | BD           | 52 02 14                | 1446          | 157                 | 345                                  | 4.54                            | 100.0             | 5               | 68            |
| 147.0               | 30.0    | 23 34.2              | 111 44.0              | BD           | 52 02 14                | 0907          | 124                 | 543                                  | 2.29                            | 100.0             | 9               | 12            |
| 150.0               | 19.0    | 23 24.9              | 110 40.5              | BD           | 52 02 13                | 1111          | 133                 | 564                                  | 2.35                            | 100.0             | 4               | 11            |
| 150.0               | 25.0    | 23 11.1              | 111 03.2              | BD           | 52 02 13                | 1431          | 139                 | 513                                  | 2.70                            | 100.0             | 12              | 13            |
| 150.0               | 30.0    | 23 02.0              | 111 20.0              | BD           | 52 02 13                | 1811          | 135                 | 545                                  | 2.47                            | 100.0             | 102             | 92            |
| 150.0               | 40.0    | 22 42.0              | 111 57.5              | BD           | 52 02 14                | 0011          | 143                 | 478                                  | 2.99                            | 100.0             | 35              | 31            |

TABLE 1. (cont.)

## CalCOFI Cruise 5203

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 80.0  | 51.0    | 34 26.1              | 120 33.5              | HO           | 52 03 05                | 1137          | 58                  | 312                                  | 1.86                            | 50.0              | 0               | 0             |
| 80.0  | 55.0    | 34 18.7              | 120 48.0              | HO           | 52 03 05                | 1341          | 137                 | 544                                  | 2.52                            | 50.0              | 12              | 29            |
| 80.0  | 60.0    | 34 09.0              | 121 09.0              | HO           | 52 03 05                | 1854          | 122                 | 578                                  | 2.11                            | 50.0              | 54              | 52            |
| 80.0  | 70.0    | 33 46.2              | 121 50.0              | HO           | 52 03 06                | 0111          | 136                 | 556                                  | 2.44                            | 50.0              | 692             | 92            |
| 80.0  | 80.0    | 33 25.0              | 122 33.5              | HO           | 52 03 06                | 0706          | 142                 | 530                                  | 2.69                            | 50.0              | 97              | 256           |
| 85.0  | 38.0    | 34 01.1              | 118 57.8              | HO           | 52 03 08                | 0231          | 99                  | 618                                  | 1.60                            | 50.0              | 1116            | 73            |
| 85.0  | 40.0    | 33 57.6              | 119 11.0              | HO           | 52 03 08                | 0046          | 125                 | 567                                  | 2.21                            | 100.0             | 1023            | 767           |
| 85.0  | 50.0    | 33 36.7              | 119 52.0              | HO           | 52 03 07                | 1928          | 69                  | 405                                  | 2.07                            | 100.0             | 140             | 31            |
| 85.0  | 60.0    | 33 17.0              | 120 33.0              | HO           | 52 03 07                | 1441          | 133                 | 642                                  | 2.07                            | 100.0             | 61              | 178           |
| 85.0  | 70.0    | 32 56.8              | 121 14.0              | HO           | 52 03 07                | 0641          | 131                 | 542                                  | 2.41                            | 25.0              | 4               | 69            |
| 90.0  | 28.0    | 33 30.2              | 117 46.5              | HO           | 52 03 08                | 1209          | 42                  | 290                                  | 1.47                            | 100.0             | 44              | 2690          |
| 90.0  | 30.0    | 33 24.4              | 117 55.7              | HO           | 52 03 08                | 1256          | 133                 | 556                                  | 2.39                            | 100.0             | 164             | 1345          |
| 90.0  | 37.0    | 33 11.0              | 118 23.5              | HO           | 52 03 08                | 1741          | 139                 | 517                                  | 2.69                            | 100.0             | 80              | 1804          |
| 90.0  | 45.0    | 32 55.2              | 118 56.4              | HO           | 52 03 08                | 1036          | 142                 | 502                                  | 2.84                            | 100.0             | 904             | 582           |
| 90.0  | 53.0    | 32 37.5              | 119 31.1              | HO           | 52 03 09                | 0346          | 153                 | 452                                  | 3.38                            | 100.0             | 647             | 82            |
| 90.0  | 60.0    | 32 23.1              | 120 01.5              | HO           | 52 03 09                | 0756          | 138                 | 490                                  | 2.82                            | 100.0             | 118             | 360           |
| 90.0  | 70.0    | 32 05.0              | 120 39.0              | HO           | 52 03 09                | 1341          | 143                 | 506                                  | 2.83                            | 100.0             | 64              | 2119          |
| 90.0  | 80.0    | 31 45.8              | 121 19.0              | HO           | 52 03 09                | 2024          | 137                 | 518                                  | 2.65                            | 100.0             | 1270            | 561           |
| 90.0  | 90.0    | 31 25.0              | 121 59.0              | HO           | 52 03 11                | 0256          | 136                 | 496                                  | 2.74                            | 50.0              | 235             | 1292          |
| 93.0  | 27.0    | 32 55.7              | 117 19.2              | HO           | 52 03 11                | 1718          | 59                  | 319                                  | 1.86                            | 100.0             | 158             | 65            |
| 93.0  | 30.0    | 32 50.0              | 117 31.5              | HO           | 52 03 11                | 1506          | 141                 | 563                                  | 2.50                            | 50.0              | 149             | 1043          |
| 93.0  | 40.0    | 32 30.0              | 118 10.0              | HO           | 52 03 11                | 0856          | 133                 | 560                                  | 2.38                            | 100.0             | 162             | 113           |
| 93.0  | 50.0    | 32 11.0              | 118 53.0              | HO           | 52 03 11                | 0331          | 144                 | 550                                  | 2.61                            | 100.0             | 1154            | 752           |
| 93.0  | 60.0    | 31 54.5              | 119 36.0              | HO           | 52 03 10                | 2056          | 137                 | 491                                  | 2.78                            | 100.0             | 280             | 365           |
| 93.0  | 70.0    | 31 33.0              | 120 22.5              | HO           | 52 03 10                | 1356          | 145                 | 508                                  | 2.85                            | 100.0             | 53              | 472           |
| 97.0  | 30.0    | 32 15.2              | 117 08.9              | HO           | 52 03 12                | 0434          | 149                 | 175                                  | 1.70                            | 100.0             | 56              | 395           |
| 97.0  | 32.0    | 32 11.5              | 117 17.0              | HO           | 52 03 12                | 0731          | 140                 | 491                                  | 2.85                            | 100.0             | 137             | 137           |
| 97.0  | 40.0    | 31 54.8              | 117 51.6              | HO           | 52 03 12                | 1206          | 136                 | 525                                  | 2.60                            | 100.0             | 153             | 252           |
| 97.0  | 50.0    | 31 35.9              | 118 30.0              | HO           | 52 03 12                | 1726          | 136                 | 509                                  | 2.67                            | 100.0             | 47              | 745           |
| 97.0  | 60.0    | 31 16.0              | 119 10.0              | HO           | 52 03 12                | 2306          | 140                 | 475                                  | 2.94                            | 100.0             | 756             | 404           |
| 97.0  | 70.0    | 30 54.5              | 119 48.1              | HO           | 52 03 13                | 1326          | 163                 | 397                                  | 4.11                            | 100.0             | 372             | 313           |
| 100.0 | 29.0    | 31 42.2              | 116 43.4              | HO           | 52 03 14                | 0250          | 54                  | 363                                  | 1.48                            | 100.0             | 159             | 52            |
| 100.0 | 30.0    | 31 40.5              | 116 46.5              | HO           | 52 03 15                | 0151          | 144                 | 513                                  | 2.81                            | 100.0             | 171             | 39            |
| 100.0 | 40.0    | 31 25.0              | 117 27.6              | HO           | 52 03 14                | 2026          | 142                 | 522                                  | 2.72                            | 100.0             | 63              | 99            |
| 100.0 | 50.0    | 31 01.0              | 118 02.1              | HO           | 52 03 14                | 1416          | 145                 | 477                                  | 3.04                            | 100.0             | 13              | 60            |
| 100.0 | 60.0    | 30 44.4              | 118 48.0              | HO           | 52 03 14                | 0831          | 116                 | 574                                  | 2.02                            | 100.0             | 284             | 1001          |
| 100.0 | 70.0    | 30 20.0              | 119 25.0              | HO           | 52 03 14                | 0306          | 125                 | 528                                  | 2.37                            | 100.0             | 74              | 346           |
| 100.0 | 80.0    | 29 56.2              | 120 04.8              | HO           | 52 03 13                | 2121          | 141                 | 497                                  | 2.83                            | 100.0             | 14              | 504           |
| 100.0 | 90.0    | 29 40.1              | 120 47.0              | HO           | 52 03 13                | 1536          | 145                 | 544                                  | 2.67                            | 100.0             | 411             | 174           |
| 105.0 | 32.0    | 30 45.5              | 116 20.7              | HO           | 52 03 15                | 0922          | 54                  | 341                                  | 1.59                            | 100.0             | 30              | 2             |
| 105.0 | 35.0    | 30 38.0              | 116 33.4              | HO           | 52 03 15                | 1156          | 140                 | 545                                  | 2.57                            | 100.0             | 142             | 149           |
| 105.0 | 40.0    | 30 28.5              | 116 54.0              | HO           | 52 03 15                | 1611          | 135                 | 552                                  | 2.45                            | 100.0             | 17              | 18            |
| 105.0 | 50.0    | 30 04.0              | 117 34.5              | HO           | 52 03 15                | 2206          | 138                 | 502                                  | 2.65                            | 100.0             | 127             | 50            |
| 105.0 | 60.0    | 29 37.2              | 118 14.7              | HO           | 52 03 16                | 0501          | 138                 | 489                                  | 2.82                            | 100.0             | 115             | 129           |
| 105.0 | 70.0    | 29 32.8              | 118 50.2              | HO           | 52 03 16                | 1316          | 115                 | 608                                  | 1.90                            | 100.0             | 16              | 80            |

TABLE 1. (cont.)

## CalCOFI Cruise 5203

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 110.0 | 35.0    | 29 45.5               | 115 58.0               | CR           | 52 03 15                | 1841          | 139                 | 512                                  | 2.72                            | 100.0             | 49              | 286           |
| 110.0 | 40.0    | 29 36.0               | 116 19.0               | CR           | 52 03 15                | 2141          | 142                 | 488                                  | 2.92                            | 100.0             | 91              | 104           |
| 110.0 | 50.0    | 29 17.0               | 116 59.0               | CR           | 52 03 16                | 0326          | 140                 | 473                                  | 2.95                            | 100.0             | 157             | 20            |
| 110.0 | 60.0    | 28 54.5               | 117 39.0               | CR           | 52 03 16                | 0856          | 137                 | 567                                  | 2.42                            | 100.0             | 38              | 8             |
| 110.0 | 70.0    | 28 36.0               | 118 18.0               | CR           | 52 03 16                | 1501          | 139                 | 519                                  | 2.68                            | 100.0             | 59              | 0             |
| 113.0 | 30.0    | 29 22.0               | 115 17.0               | CR           | 52 03 15                | 1319          | 35                  | 263                                  | 1.33                            | 50.0              | 84              | 1             |
| 113.0 | 30.0    | 29 22.5               | 115 17.5               | BD           | 52 04 02                | 1548          | 41                  | 167                                  | 2.44                            | 100.0             | 13              | 47            |
| 113.0 | 35.0    | 29 12.0               | 115 39.0               | BD           | 52 04 02                | 1149          | 146                 | 475                                  | 3.08                            | 100.0             | 46              | 144           |
| 113.0 | 35.0    | 29 07.0               | 115 36.0               | CR           | 52 03 15                | 1026          | 139                 | 523                                  | 2.66                            | 100.0             | 363             | 634           |
| 113.0 | 40.0    | 29 03.0               | 115 57.0               | CR           | 52 03 15                | 0726          | 140                 | 504                                  | 2.77                            | 100.0             | 10              | 1674          |
| 113.0 | 40.0    | 29 02.0               | 115 58.5               | BD           | 52 04 02                | 0748          | 138                 | 492                                  | 2.81                            | 100.0             | 105             | 76            |
| 113.0 | 45.0    | 28 52.0               | 116 18.0               | BD           | 52 04 02                | 0521          | 137                 | 467                                  | 2.93                            | 100.0             | 40              | 60            |
| 113.0 | 50.0    | 28 42.0               | 116 37.5               | BD           | 52 04 02                | 0136          | 143                 | 448                                  | 3.19                            | 100.0             | 58              | 53            |
| 113.0 | 55.0    | 28 32.0               | 116 57.0               | BD           | 52 04 01                | 2306          | 151                 | 451                                  | 3.35                            | 100.0             | 193             | 89            |
| 113.0 | 60.0    | 28 23.5               | 117 13.5               | CR           | 52 03 14                | 2126          | 139                 | 510                                  | 2.74                            | 100.0             | 13              | 13            |
| 113.0 | 60.0    | 28 22.0               | 117 16.5               | BD           | 52 04 01                | 1946          | 139                 | 489                                  | 2.84                            | 100.0             | 60              | 0             |
| 113.0 | 65.0    | 28 12.0               | 117 35.0               | BD           | 52 04 01                | 1717          | 137                 | 504                                  | 2.72                            | 100.0             | 57              | 151           |
| 113.0 | 70.0    | 28 02.0               | 117 55.5               | BD           | 52 04 01                | 1402          | 141                 | 477                                  | 2.95                            | 100.0             | 57              | 222           |
| 117.0 | 26.0    | 28 54.2               | 114 44.0               | CR           | 52 03 13                | 2159          | 38                  | 182                                  | 2.08                            | 100.0             | 296             | 414           |
| 117.0 | 26.0    | 28 56.0               | 114 41.0               | BD           | 52 03 31                | 0553          | 63                  | 304                                  | 2.06                            | 100.0             | 13              | 22            |
| 117.0 | 30.0    | 28 48.0               | 114 56.5               | BD           | 52 03 31                | 0758          | 85                  | 304                                  | 2.78                            | 100.0             | 14              | 0             |
| 117.0 | 30.0    | 28 48.0               | 114 57.0               | CR           | 52 03 14                | 0019          | 49                  | 343                                  | 1.43                            | 100.0             | 121             | 112           |
| 117.0 | 35.0    | 28 36.5               | 115 19.0               | CR           | 52 03 14                | 0328          | 69                  | 424                                  | 1.63                            | 100.0             | 1879            | 16            |
| 117.0 | 35.0    | 28 38.0               | 115 17.0               | BD           | 52 03 31                | 1108          | 145                 | 464                                  | 3.14                            | 100.0             | 104             | 330           |
| 117.0 | 40.0    | 28 28.0               | 115 35.5               | BD           | 52 03 31                | 1338          | 141                 | 480                                  | 2.94                            | 100.0             | 26              | 113           |
| 117.0 | 40.0    | 28 27.0               | 115 35.0               | BD           | 52 03 14                | 0611          | 144                 | 519                                  | 2.77                            | 100.0             | 381             | 129           |
| 117.0 | 45.0    | 28 18.0               | 115 55.0               | BD           | 52 03 31                | 1705          | 136                 | 491                                  | 2.77                            | 100.0             | 22              | 2             |
| 117.0 | 50.0    | 28 08.0               | 116 15.0               | CR           | 52 03 14                | 1141          | 135                 | 462                                  | 2.92                            | 100.0             | 139             | 867           |
| 117.0 | 50.0    | 28 08.0               | 116 15.0               | BD           | 52 03 31                | 1936          | 144                 | 481                                  | 3.00                            | 100.0             | 41              | 109           |
| 117.0 | 55.0    | 27 57.0               | 116 35.0               | BD           | 52 03 31                | 2256          | 148                 | 459                                  | 3.22                            | 100.0             | 43              | 76            |
| 117.0 | 60.0    | 27 49.0               | 116 51.0               | CR           | 52 03 14                | 1651          | 137                 | 509                                  | 2.70                            | 100.0             | 134             | 9             |
| 117.0 | 60.0    | 27 47.5               | 116 54.0               | BD           | 52 04 01                | 0136          | 143                 | 464                                  | 3.08                            | 100.0             | 42              | 53            |
| 117.0 | 65.0    | 27 38.0               | 117 13.0               | BD           | 52 04 01                | 0456          | 135                 | 501                                  | 2.70                            | 100.0             | 170             | 150           |
| 117.0 | 70.0    | 27 27.5               | 117 32.5               | BD           | 52 04 01                | 0734          | 140                 | 469                                  | 2.98                            | 100.0             | 52              | 69            |
| 120.0 | 25.0    | 28 21.0               | 114 15.0               | CR           | 52 03 13                | 1729          | 38                  | 242                                  | 1.56                            | 100.0             | 1               | 364           |
| 120.0 | 25.0    | 28 23.0               | 114 14.5               | BD           | 52 03 31                | 0143          | 56                  | 228                                  | 2.45                            | 100.0             | 24              | 17            |
| 120.0 | 30.0    | 28 13.0               | 114 34.0               | BD           | 52 03 30                | 2303          | 70                  | 269                                  | 2.60                            | 100.0             | 329             | 83            |
| 120.0 | 30.0    | 28 13.0               | 114 34.0               | CR           | 52 03 13                | 1454          | 42                  | 242                                  | 1.72                            | 100.0             | 180             | 234           |
| 120.0 | 35.0    | 28 03.0               | 114 54.0               | CR           | 52 03 13                | 1214          | 41                  | 280                                  | 1.48                            | 100.0             | 666             | 155           |
| 120.0 | 35.0    | 28 03.0               | 114 54.0               | BD           | 52 03 30                | 2016          | 69                  | 292                                  | 2.38                            | 100.0             | 179             | 7             |
| 120.0 | 40.0    | 27 55.5               | 115 16.0               | BD           | 52 03 30                | 1804          | 33                  | 145                                  | 2.31                            | 100.0             | 35              | 183           |
| 120.0 | 45.0    | 27 40.0               | 115 28.5               | CR           | 52 03 13                | 0516          | 148                 | 486                                  | 3.05                            | 100.0             | 530             | 80            |
| 120.0 | 45.0    | 27 43.0               | 115 33.0               | BD           | 52 03 30                | 1436          | 140                 | 499                                  | 2.81                            | 100.0             | 9               | 151           |
| 120.0 | 50.0    | 27 30.5               | 115 50.5               | CR           | 52 03 13                | 0111          | 142                 | 462                                  | 3.08                            | 100.0             | 88              | 254           |

TABLE 1. (cont.)

## CalCOFI Cruise 5203

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 120.0 | 50.0    | 27 33.0              | 115 52.5              | BD           | 52 03 30           | 1111          | 142                 | 473                                  | 3.01                            | 100.0             | 24              | 91            |
| 120.0 | 55.0    | 27 23.0              | 116 12.0              | BD           | 52 03 30           | 0823          | 142                 | 489                                  | 2.90                            | 100.0             | 66              | 44            |
| 120.0 | 60.0    | 27 13.0              | 116 31.5              | BD           | 52 03 30           | 0601          | 135                 | 516                                  | 2.62                            | 100.0             | 58              | 70            |
| 120.0 | 60.0    | 27 13.0              | 116 31.5              | CR           | 52 03 12           | 1936          | 139                 | 514                                  | 2.70                            | 100.0             | 121             | 30            |
| 120.0 | 65.0    | 27 03.0              | 116 50.0              | BD           | 52 03 30           | 0209          | 140                 | 474                                  | 2.95                            | 100.0             | 31              | 25            |
| 120.0 | 70.0    | 26 52.0              | 117 10.0              | CR           | 52 03 12           | 1402          | 135                 | 495                                  | 2.73                            | 100.0             | 49              | 53            |
| 120.0 | 70.0    | 26 52.5              | 117 10.0              | BD           | 52 03 29           | 2245          | 140                 | 496                                  | 2.82                            | 100.0             | 121             | 80            |
| 120.0 | 80.0    | 26 32.5              | 117 48.5              | BD           | 52 03 29           | 1706          | 135                 | 509                                  | 2.66                            | 100.0             | 14              | 301           |
| 120.0 | 80.0    | 26 30.0              | 117 48.0              | CR           | 52 03 12           | 0831          | 149                 | 396                                  | 3.77                            | 100.0             | 8               | 7             |
| 120.0 | 90.0    | 26 13.0              | 118 27.5              | BD           | 52 03 29           | 1006          | 139                 | 501                                  | 2.77                            | 100.0             | 7               | 72            |
| 120.0 | 90.0    | 26 13.0              | 118 27.5              | CR           | 52 03 12           | 0146          | 140                 | 504                                  | 2.78                            | 100.0             | 1               | 12            |
| 123.0 | 37.0    | 27 24.0              | 114 39.7              | BD           | 52 03 28           | 0503          | 46                  | 259                                  | 1.78                            | 100.0             | 30              | 814           |
| 123.0 | 40.0    | 27 18.0              | 114 51.5              | BD           | 52 03 10           | 2104          | 45                  | 273                                  | 1.63                            | 100.0             | 85              | 126           |
| 123.0 | 40.0    | 27 18.0              | 114 51.5              | CR           | 52 03 28           | 0701          | 134                 | 471                                  | 2.82                            | 100.0             | 59              | 559           |
| 123.0 | 40.0    | 27 18.0              | 114 51.5              | CR           | 52 03 10           | 2326          | 144                 | 520                                  | 2.77                            | 100.0             | 208             | 387           |
| 123.0 | 45.0    | 27 08.0              | 115 11.0              | BD           | 52 03 28           | 1046          | 141                 | 465                                  | 3.05                            | 100.0             | 474             | 1115          |
| 123.0 | 50.0    | 26 58.0              | 115 30.5              | BD           | 52 03 28           | 1307          | 142                 | 483                                  | 2.92                            | 100.0             | 30              | 62            |
| 123.0 | 50.0    | 26 58.0              | 115 30.5              | CR           | 52 03 11           | 0521          | 131                 | 536                                  | 2.44                            | 100.0             | 145             | 111           |
| 123.0 | 55.0    | 26 48.0              | 115 50.0              | BD           | 52 03 28           | 1623          | 137                 | 495                                  | 2.77                            | 100.0             | 37              | 136           |
| 123.0 | 60.0    | 26 37.5              | 116 08.5              | CR           | 52 03 11           | 1111          | 133                 | 520                                  | 2.56                            | 100.0             | 11              | 13            |
| 123.0 | 60.0    | 26 38.5              | 116 09.0              | BD           | 52 03 28           | 1856          | 137                 | 490                                  | 2.79                            | 100.0             | 33              | 200           |
| 127.0 | 34.0    | 26 55.0              | 114 05.0              | CR           | 52 03 10           | 1529          | 40                  | 249                                  | 1.62                            | 100.0             | 166             | 1902          |
| 127.0 | 34.0    | 26 55.3              | 114 06.0              | BD           | 52 03 28           | 2353          | 60                  | 237                                  | 2.51                            | 100.0             | 153             | 1159          |
| 127.0 | 40.0    | 26 43.5              | 114 29.5              | BD           | 52 03 27           | 2001          | 141                 | 459                                  | 3.06                            | 25.0              | 192             | 519           |
| 127.0 | 40.0    | 26 43.2              | 114 35.0              | CR           | 52 03 10           | 1156          | 132                 | 490                                  | 2.76                            | 100.0             | 84              | 143           |
| 127.0 | 45.0    | 26 30.0              | 114 27.0              | BD           | 52 03 27           | 1736          | 134                 | 487                                  | 2.76                            | 50.0              | 254             | 316           |
| 127.0 | 50.0    | 26 23.5              | 115 08.0              | BD           | 52 03 27           | 1421          | 139                 | 454                                  | 3.06                            | 100.0             | 97              | 489           |
| 127.0 | 50.0    | 26 23.0              | 115 09.0              | CR           | 52 03 10           | 0631          | 151                 | 859                                  | 3.25                            | 100.0             | 52              | 41            |
| 127.0 | 55.0    | 26 14.0              | 115 27.0              | BD           | 52 03 27           | 1111          | 141                 | 475                                  | 2.96                            | 100.0             | 33              | 233           |
| 127.0 | 60.0    | 26 03.5              | 115 46.5              | BD           | 52 03 27           | 0731          | 135                 | 488                                  | 2.77                            | 100.0             | 11              | 23            |
| 127.0 | 60.0    | 26 03.0              | 115 47.0              | CR           | 52 03 10           | 0036          | 147                 | 480                                  | 3.07                            | 100.0             | 78              | 17            |
| 130.0 | 30.0    | 26 29.0              | 113 29.0              | BD           | 52 03 26           | 0648          | 59                  | 290                                  | 2.04                            | 100.0             | 21              | 6             |
| 130.0 | 30.0    | 26 29.0              | 113 29.0              | CR           | 52 03 09           | 0014          | 42                  | 265                                  | 1.58                            | 100.0             | 331             | 4             |
| 130.0 | 35.0    | 26 19.0              | 113 49.0              | CR           | 52 03 09           | 0316          | 150                 | 498                                  | 3.01                            | 100.0             | 250             | 84            |
| 130.0 | 35.0    | 26 19.0              | 113 48.5              | BD           | 52 03 26           | 0916          | 130                 | 495                                  | 2.62                            | 100.0             | 81              | 1668          |
| 130.0 | 40.0    | 26 08.5              | 114 08.0              | CR           | 52 03 09           | 0646          | 145                 | 494                                  | 2.93                            | 100.0             | 891             | 132           |
| 130.0 | 40.0    | 26 09.0              | 114 07.5              | BD           | 52 03 26           | 1206          | 141                 | 473                                  | 2.98                            | 100.0             | 43              | 475           |
| 130.0 | 45.0    | 25 59.0              | 114 27.0              | BD           | 52 03 26           | 1621          | 137                 | 496                                  | 2.76                            | 100.0             | 158             | 150           |
| 130.0 | 50.0    | 25 49.0              | 114 47.0              | BD           | 52 03 26           | 1852          | 135                 | 491                                  | 2.75                            | 50.0              | 176             | 321           |
| 130.0 | 50.0    | 25 49.0              | 114 47.0              | CR           | 52 03 09           | 1246          | 145                 | 468                                  | 3.11                            | 100.0             | 56              | 232           |
| 130.0 | 52.0    | 25 44.0              | 114 56.0              | BD           | 52 03 26           | 2122          | 133                 | 511                                  | 2.60                            | 100.0             | 179             | 90            |
| 130.0 | 55.0    | 25 40.0              | 115 05.0              | BD           | 52 03 26           | 2252          | 141                 | 481                                  | 2.94                            | 100.0             | 128             | 75            |
| 130.0 | 60.0    | 25 29.0              | 115 24.0              | BD           | 52 03 27           | 0126          | 140                 | 483                                  | 2.90                            | 100.0             | 76              | 70            |
| 130.0 | 60.0    | 25 29.0              | 115 24.0              | CR           | 52 03 09           | 1841          | 132                 | 530                                  | 2.49                            | 100.0             | 185             | 33            |
| 133.0 | 25.0    | 26 04.5              | 112 48.0              | CR           | 52 03 08           | 1914          | 40                  | 260                                  | 1.56                            | 100.0             | 1932            | 40            |



TABLE 1. (cont.)

## CalCOFI Cruise 5203

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 133.0 | 25.0    | 26 04.5              | 112 48.0              | BD           | 52 03 26           | 0113          | 64                  | 260                                  | 2.46                            | 100.0             | 107             | 21            |
| 133.0 | 30.0    | 25 54.5              | 113 07.5              | BD           | 52 03 25           | 2157          | 103                 | 344                                  | 3.00                            | 100.0             | 135             | 282           |
| 133.0 | 30.0    | 25 54.0              | 113 05.0              | CR           | 52 03 08           | 1641          | 144                 | 458                                  | 3.14                            | 100.0             | 9               | 13            |
| 133.0 | 35.0    | 25 44.0              | 113 26.0              | BD           | 52 03 25           | 1921          | 136                 | 503                                  | 2.71                            | 100.0             | 37              | 582           |
| 133.0 | 40.0    | 25 34.5              | 113 45.5              | CR           | 52 03 08           | 1211          | 138                 | 514                                  | 2.69                            | 100.0             | 27              | 15            |
| 133.0 | 40.0    | 25 34.5              | 113 45.5              | BD           | 52 03 25           | 1611          | 135                 | 513                                  | 2.63                            | 100.0             | 84              | 316           |
| 133.0 | 45.0    | 25 25.0              | 114 04.0              | BD           | 52 03 25           | 1326          | 140                 | 519                                  | 2.70                            | 100.0             | 36              | 94            |
| 133.0 | 50.0    | 25 13.0              | 114 21.0              | BD           | 52 03 25           | 1010          | 119                 | 634                                  | 1.87                            | 100.0             | 2               | 57            |
| 133.0 | 50.0    | 25 14.5              | 114 24.0              | CR           | 52 03 08           | 0626          | 135                 | 496                                  | 2.71                            | 100.0             | 65              | 68            |
| 133.0 | 60.0    | 24 54.5              | 115 01.5              | BD           | 52 03 25           | 0356          | 135                 | 496                                  | 2.72                            | 100.0             | 31              | 69            |
| 137.0 | 23.0    | 25 34.2              | 112 18.7              | BD           | 52 03 23           | 2137          | 61                  | 284                                  | 2.15                            | 100.0             | 48              | 15            |
| 137.0 | 23.0    | 25 33.0              | 112 20.0              | CR           | 52 03 07           | 1214          | 41                  | 314                                  | 1.31                            | 100.0             | 18              | 8             |
| 137.0 | 30.0    | 25 20.0              | 112 45.5              | BD           | 52 03 24           | 0114          | 134                 | 499                                  | 2.69                            | 100.0             | 20              | 12            |
| 137.0 | 30.0    | 25 20.0              | 112 45.0              | CR           | 52 03 07           | 1517          | 137                 | 505                                  | 2.72                            | 50.0              | 12              | 1             |
| 137.0 | 40.0    | 25 00.0              | 113 23.5              | BD           | 52 03 24           | 0958          | 140                 | 492                                  | 2.85                            | 100.0             | 365             | 787           |
| 137.0 | 40.0    | 24 58.5              | 113 26.5              | CR           | 52 03 07           | 1931          | 146                 | 469                                  | 3.11                            | 100.0             | 129             | 28            |
| 137.0 | 45.0    | 24 50.0              | 113 43.0              | BD           | 52 03 24           | 1414          | 141                 | 508                                  | 2.76                            | 100.0             | 18              | 66            |
| 137.0 | 50.0    | 24 39.8              | 114 02.0              | CR           | 03 08 52           | 0046          | 139                 | 480                                  | 2.89                            | 100.0             | 169             | 76            |
| 137.0 | 60.0    | 24 20.0              | 114 39.5              | BD           | 52 03 24           | 2216          | 139                 | 502                                  | 2.76                            | 100.0             | 23              | 30            |

TABLE 1. (cont.)

## CalCOFI Cruise 5204

| Line | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|-----------------------|------------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 60.0 | 55.0    | 37 47.5               | 123 15.0               | HO           | 52 04 06           | 0658          | 62                  | 512                                  | 1.22                            | 100.0             | 26              | 43            |
| 60.0 | 60.0    | 37 37.0               | 123 37.0               | HO           | 52 04 06           | 0336          | 116                 | 587                                  | 1.98                            | 25.0              | 33              | 8             |
| 60.0 | 70.0    | 37 19.0               | 124 21.0               | HO           | 52 04 05           | 2146          | 138                 | 468                                  | 2.94                            | 25.0              | 5               | 69            |
| 60.0 | 80.0    | 37 02.0               | 125 01.1               | HO           | 52 04 05           | 1721          | 103                 | 616                                  | 1.68                            | 50.0              | 2               | 24            |
| 60.0 | 90.0    | 36 36.0               | 125 47.5               | HO           | 52 04 05           | 1131          | 122                 | 563                                  | 2.18                            | 50.0              | 6               | 6             |
| 63.0 | 52.0    | 37 19.0               | 122 36.2               | HO           | 52 04 07           | 1549          | 37                  | 412                                  | 0.90                            | 100.0             | 0               | 9             |
| 63.0 | 55.0    | 37 14.0               | 122 49.5               | HO           | 52 04 07           | 1346          | 129                 | 633                                  | 2.04                            | 100.0             | 38              | 78            |
| 67.0 | 50.0    | 36 49.0               | 122 04.6               | HO           | 52 04 07           | 2033          | 69                  | 469                                  | 1.47                            | 100.0             | 26              | 81            |
| 67.0 | 55.0    | 36 39.5               | 122 25.8               | HO           | 52 04 08           | 0026          | 150                 | 497                                  | 3.01                            | 100.0             | 84              | 17            |
| 70.0 | 55.0    | 36 03.0               | 122 02.0               | HO           | 52 04 08           | 0636          | 140                 | 514                                  | 2.73                            | 100.0             | 78              | 4             |
| 70.0 | 60.0    | 35 48.8               | 122 24.0               | HO           | 52 04 08           | 0956          | 146                 | 511                                  | 2.86                            | 50.0              | 21              | 18            |
| 70.0 | 70.0    | 35 31.4               | 123 11.0               | HO           | 52 04 08           | 1531          | 126                 | 569                                  | 2.21                            | 50.0              | 5               | 3             |
| 70.0 | 80.0    | 35 14.2               | 123 48.0               | HO           | 52 04 08           | 2136          | 130                 | 531                                  | 2.46                            | 100.0             | 91              | 51            |
| 70.0 | 90.0    | 34 53.5               | 124 30.0               | HO           | 52 04 09           | 0316          | 125                 | 596                                  | 2.09                            | 100.0             | 114             | 134           |
| 73.0 | 50.0    | 35 37.0               | 121 16.6               | HO           | 52 04 04           | 0929          | 38                  | 317                                  | 1.21                            | 100.0             | 63              | 33            |
| 73.0 | 60.0    | 35 18.2               | 121 57.6               | HO           | 52 04 04           | 1531          | 132                 | 493                                  | 2.69                            | 100.0             | 33              | 121           |
| 77.0 | 50.0    | 35 04.4               | 120 52.0               | HO           | 52 04 04           | 0108          | 68                  | 457                                  | 1.50                            | 100.0             | 42              | 269           |
| 77.0 | 55.0    | 34 54.5               | 121 13.0               | HO           | 52 04 04           | 0421          | 131                 | 551                                  | 1.38                            | 100.0             | 102             | 364           |
| 80.0 | 51.0    | 34 26.3               | 120 32.5               | HO           | 52 04 10           | 2213          | 49                  | 347                                  | 1.42                            | 25.0              | 30              | 8             |
| 80.0 | 55.0    | 34 19.5               | 120 47.7               | HO           | 52 04 10           | 1956          | 143                 | 540                                  | 2.65                            | 50.0              | 47              | 20            |
| 80.0 | 60.0    | 34 08.2               | 121 09.5               | HO           | 52 04 10           | 1631          | 144                 | 511                                  | 2.81                            | 100.0             | 45              | 17            |
| 80.0 | 70.0    | 33 50.8               | 121 50.5               | HO           | 52 04 10           | 1041          | 140                 | 513                                  | 2.74                            | 100.0             | 63              | 8             |
| 80.0 | 80.0    | 33 30.2               | 122 31.2               | HO           | 52 04 10           | 0455          | 139                 | 585                                  | 2.37                            | 100.0             | 277             | 23            |
| 80.0 | 90.0    | 33 08.0               | 123 12.5               | HO           | 52 04 09           | 2311          | 144                 | 510                                  | 2.82                            | 100.0             | 186             | 51            |
| 80.0 | 100.0   | 32 50.7               | 123 54.1               | HO           | 52 04 09           | 1711          | 139                 | 528                                  | 2.63                            | 50.0              | 4               | 12            |
| 83.0 | 55.0    | 33 44.1               | 120 24.0               | HO           | 52 04 11           | 0336          | 135                 | 535                                  | 2.52                            | 100.0             | 153             | 110           |
| 83.0 | 60.0    | 33 33.6               | 120 44.5               | HO           | 52 04 11           | 0711          | 141                 | 493                                  | 2.86                            | 100.0             | 77              | 20            |
| 83.0 | 70.0    | 33 16.1               | 121 27.6               | HO           | 52 04 11           | 1321          | 131                 | 610                                  | 2.14                            | 50.0              | 66              | 36            |
| 83.0 | 80.0    | 32 55.0               | 122 06.1               | HO           | 52 04 11           | 1901          | 136                 | 565                                  | 2.40                            | 100.0             | 55              | 37            |
| 83.0 | 90.0    | 32 36.4               | 121 46.8               | HO           | 52 04 12           | 0326          | 130                 | 600                                  | 2.17                            | 100.0             | 85              | 2             |
| 87.0 | 35.0    | 33 50.0               | 118 37.5               | HO           | 52 04 13           | 1511          | 110                 | 581                                  | 1.90                            | 100.0             | 865             | 165           |
| 87.0 | 40.0    | 33 40.5               | 118 59.0               | HO           | 52 04 13           | 1231          | 126                 | 538                                  | 2.34                            | 100.0             | 123             | 23            |
| 87.0 | 50.0    | 33 20.3               | 119 39.5               | HO           | 52 04 13           | 0734          | 39                  | 290                                  | 1.36                            | 100.0             | 64              | 3             |
| 87.0 | 60.0    | 32 55.0               | 121 17.1               | HO           | 52 04 13           | 0141          | 138                 | 447                                  | 2.90                            | 100.0             | 136             | 23            |
| 87.0 | 70.0    | 32 37.0               | 121 01.9               | HO           | 52 04 12           | 2011          | 139                 | 483                                  | 2.87                            | 100.0             | 39              | 68            |
| 87.0 | 80.0    | 32 19.3               | 121 43.6               | HO           | 52 04 12           | 1501          | 141                 | 440                                  | 3.21                            | 100.0             | 55              | 52            |
| 87.0 | 90.0    | 32 02.0               | 121 23.0               | HO           | 52 04 12           | 0846          | 134                 | 518                                  | 2.58                            | 100.0             | 17              | 6             |
| 90.0 | 28.0    | 33 28.0               | 117 47.5               | CR           | 52 04 01           | 2156          | 141                 | 455                                  | 3.10                            | 100.0             | 130             | 248           |
| 90.0 | 30.0    | 33 24.5               | 117 55.0               | CR           | 52 04 01           | 2256          | 138                 | 564                                  | 2.45                            | 100.0             | 1548            | 702           |
| 90.0 | 37.0    | 33 10.5               | 118 23.5               | CR           | 52 04 02           | 0251          | 137                 | 531                                  | 3.31                            | 100.0             | 1508            | 396           |
| 90.0 | 45.0    | 32 54.5               | 118 56.0               | CR           | 52 04 02           | 0737          | 146                 | 442                                  | 3.31                            | 100.0             | 268             | 489           |
| 90.0 | 53.0    | 32 39.0               | 119 28.5               | CR           | 52 04 02           | 1226          | 177                 | 454                                  | 3.89                            | 100.0             | 118             | 268           |
| 90.0 | 60.0    | 32 27.0               | 119 53.5               | CR           | 52 04 02           | 1621          | 150                 | 487                                  | 3.09                            | 100.0             | 75              | 63            |
| 90.0 | 70.0    | 32 04.0               | 120 39.0               | CR           | 52 04 02           | 2255          | 147                 | 489                                  | 3.00                            | 100.0             | 1270            | 94            |
| 90.0 | 80.0    | 31 46.5               | 121 19.0               | CR           | 52 04 03           | 0531          | 140                 | 533                                  | 2.63                            | 100.0             | 188             | 146           |

TABLE 1. (cont.)

## CalCOFI Cruise 5204

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 90.0  | 90.0    | 31 25.0               | 121 59.0               | CR           | 52 04 03                | 1136          | 127                 | 506                                  | 2.50                            | 100.0             | 904             | 218           |
| 90.0  | 100.0   | 31 05.0               | 122 39.0               | CR           | 52 04 03                | 1702          | 138                 | 470                                  | 2.93                            | 100.0             | 466             | 307           |
| 93.0  | 27.0    | 32 55.0               | 117 19.0               | CR           | 52 04 05                | 0856          | 122                 | 507                                  | 2.40                            | 100.0             | 400             | 90            |
| 93.0  | 30.0    | 32 50.0               | 117 31.5               | CR           | 52 04 05                | 0657          | 133                 | 451                                  | 2.95                            | 100.0             | 207             | 1374          |
| 93.0  | 40.0    | 32 30.0               | 118 12.5               | CR           | 52 04 05                | 0231          | 141                 | 455                                  | 3.09                            | 100.0             | 395             | 915           |
| 93.0  | 50.0    | 32 10.0               | 118 54.0               | CR           | 52 04 04                | 2056          | 140                 | 449                                  | 3.13                            | 100.0             | 194             | 172           |
| 93.0  | 60.0    | 31 52.0               | 119 30.0               | CR           | 52 04 04                | 1646          | 128                 | 463                                  | 2.77                            | 100.0             | 216             | 190           |
| 93.0  | 70.0    | 31 33.0               | 120 16.0               | CR           | 52 04 04                | 1131          | 141                 | 465                                  | 3.04                            | 100.0             | 82              | 90            |
| 93.0  | 80.0    | 31 12.0               | 121 00.0               | CR           | 52 04 04                | 0522          | 159                 | 426                                  | 3.74                            | 100.0             | 440             | 68            |
| 93.0  | 90.0    | 30 51.0               | 121 36.5               | CR           | 52 04 04                | 0106          | 150                 | 487                                  | 3.07                            | 100.0             | 278             | 268           |
| 97.0  | 32.0    | 32 10.5               | 117 16.5               | CR           | 52 04 06                | 1356          | 129                 | 452                                  | 2.84                            | 100.0             | 249             | 1007          |
| 97.0  | 40.0    | 31 55.0               | 117 50.5               | CR           | 52 04 06                | 1832          | 130                 | 452                                  | 2.88                            | 100.0             | 431             | 1155          |
| 97.0  | 50.0    | 31 35.0               | 118 31.0               | CR           | 52 04 07                | 0026          | 139                 | 470                                  | 2.97                            | 100.0             | 160             | 1867          |
| 97.0  | 60.0    | 31 12.0               | 119 08.5               | CR           | 52 04 07                | 0512          | 143                 | 434                                  | 3.29                            | 100.0             | 160             | 432           |
| 97.0  | 70.0    | 30 51.0               | 119 51.0               | CR           | 52 04 07                | 1026          | 133                 | 466                                  | 2.85                            | 100.0             | 116             | 1712          |
| 97.0  | 80.0    | 30 35.0               | 120 31.0               | CR           | 52 04 07                | 1536          | 132                 | 463                                  | 2.85                            | 100.0             | 952             | 42            |
| 97.0  | 90.0    | 30 15.0               | 121 11.0               | CR           | 52 04 07                | 2111          | 146                 | 445                                  | 3.29                            | 100.0             | 293             | 52            |
| 100.0 | 29.0    | 31 42.0               | 116 44.0               | CR           | 52 04 09                | 1759          | 66                  | 376                                  | 1.76                            | 100.0             | 277             | 143           |
| 100.0 | 30.0    | 31 40.5               | 116 45.0               | CR           | 52 04 09                | 1657          | 126                 | 470                                  | 2.68                            | 100.0             | 124             | 61            |
| 100.0 | 40.0    | 31 19.0               | 117 25.0               | CR           | 52 04 09                | 1209          | 149                 | 392                                  | 3.81                            | 100.0             | 79              | 308           |
| 100.0 | 50.0    | 30 58.0               | 118 05.0               | CR           | 52 04 09                | 0522          | 140                 | 430                                  | 3.25                            | 100.0             | 359             | 309           |
| 100.0 | 60.0    | 30 41.0               | 118 47.5               | CR           | 52 04 09                | 0021          | 142                 | 444                                  | 3.20                            | 100.0             | 82              | 124           |
| 100.0 | 70.0    | 30 20.5               | 119 27.0               | CR           | 52 04 08                | 1916          | 142                 | 425                                  | 3.33                            | 100.0             | 78              | 185           |
| 100.0 | 80.0    | 30 01.0               | 120 07.0               | CR           | 52 04 08                | 1426          | 142                 | 441                                  | 3.21                            | 100.0             | 54              | 191           |
| 100.0 | 90.0    | 29 40.0               | 120 47.0               | CR           | 52 04 08                | 0926          | 145                 | 458                                  | 3.16                            | 100.0             | 67              | 162           |
| 100.0 | 100.0   | 29 20.0               | 121 27.0               | CR           | 52 04 08                | 0341          | 149                 | 454                                  | 3.28                            | 100.0             | 141             | 184           |
| 103.0 | 30.0    | 31 04.5               | 116 26.5               | CR           | 52 04 09                | 2224          | 56                  | 300                                  | 1.86                            | 100.0             | 310             | 83            |
| 103.0 | 35.0    | 30 55.5               | 116 45.0               | CR           | 52 04 10                | 0056          | 140                 | 426                                  | 3.28                            | 100.0             | 94              | 226           |
| 103.0 | 40.0    | 30 46.0               | 117 06.0               | CR           | 52 04 10                | 0401          | 136                 | 427                                  | 3.19                            | 100.0             | 111             | 50            |
| 103.0 | 50.0    | 30 26.0               | 117 45.5               | CR           | 52 04 10                | 0901          | 132                 | 446                                  | 2.97                            | 100.0             | 198             | 374           |
| 103.0 | 60.0    | 30 06.0               | 118 24.5               | CR           | 52 04 10                | 1416          | 141                 | 449                                  | 3.15                            | 100.0             | 69              | 62            |
| 103.0 | 70.0    | 29 46.0               | 119 05.5               | CR           | 52 04 10                | 2011          | 141                 | 444                                  | 3.18                            | 100.0             | 99              | 126           |
| 103.0 | 80.0    | 29 27.0               | 119 45.0               | CR           | 52 04 11                | 0131          | 144                 | 436                                  | 3.30                            | 100.0             | 34              | 60            |
| 103.0 | 90.0    | 29 06.0               | 120 25.0               | CR           | 52 04 11                | 0955          | 146                 | 461                                  | 3.17                            | 100.0             | 100             | 98            |
| 107.0 | 32.0    | 30 25.5               | 116 12.0               | CR           | 52 04 12                | 1801          | 140                 | 441                                  | 3.19                            | 100.0             | 139             | 42            |
| 107.0 | 35.0    | 30 19.0               | 116 21.5               | CR           | 52 04 12                | 1557          | 132                 | 447                                  | 2.95                            | 100.0             | 45              | 172           |
| 107.0 | 40.0    | 30 05.5               | 116 43.0               | CR           | 52 04 12                | 1221          | 143                 | 454                                  | 3.15                            | 100.0             | 43              | 317           |
| 107.0 | 50.0    | 29 48.5               | 117 23.0               | CR           | 52 04 12                | 0716          | 148                 | 411                                  | 3.59                            | 100.0             | 64              | 83            |
| 107.0 | 60.0    | 29 32.0               | 118 03.0               | CR           | 52 04 12                | 0221          | 144                 | 416                                  | 3.47                            | 100.0             | 34              | 97            |
| 107.0 | 70.0    | 29 13.5               | 118 45.0               | CR           | 52 04 11                | 2126          | 142                 | 449                                  | 3.16                            | 100.0             | 67              | 310           |
| 107.0 | 80.0    | 28 53.0               | 119 27.5               | CR           | 52 04 11                | 1602          | 135                 | 441                                  | 3.07                            | 100.0             | 37              | 73            |
| 110.0 | 33.0    | 29 49.5               | 115 54.0               | CR           | 52 04 12                | 2226          | 139                 | 465                                  | 2.98                            | 100.0             | 104             | 20            |
| 110.0 | 35.0    | 29 46.5               | 116 00.0               | CR           | 52 04 13                | 0011          | 144                 | 464                                  | 3.10                            | 100.0             | 195             | 46            |
| 110.0 | 40.0    | 29 36.5               | 116 19.5               | CR           | 52 04 13                | 0316          | 144                 | 434                                  | 3.32                            | 100.0             | 134             | 101           |
| 110.0 | 50.0    | 29 16.5               | 116 59.0               | CR           | 52 04 13                | 0841          | 136                 | 459                                  | 2.96                            | 100.0             | 99              | 38            |

TABLE 1. (cont.)

## CalCOFI Cruise 5204

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 110.0 | 60.0    | 28 53.5              | 117 38.0              | CR           | 52 04 13                | 1331          | 137                 | 474                                  | 2.89                            | 100.0             | 35              | 867           |
| 110.0 | 70.0    | 28 36.0              | 118 18.0              | CR           | 52 04 13                | 1852          | 135                 | 457                                  | 2.95                            | 100.0             | 95              | 56            |
| 110.0 | 80.0    | 28 16.5              | 118 57.5              | CR           | 52 04 13                | 2346          | 144                 | 454                                  | 3.16                            | 100.0             | 142             | 369           |
| 110.0 | 90.0    | 27 57.5              | 119 35.0              | CR           | 52 04 14                | 0527          | 148                 | 426                                  | 3.46                            | 100.0             | 132             | 72            |
| 113.0 | 30.0    | 29 22.5              | 115 17.5              | BD           | 52 04 15                | 0826          | 35                  | 214                                  | 1.64                            | 50.0              | 8               | 8             |
| 113.0 | 35.0    | 29 12.0              | 115 39.0              | BD           | 52 04 15                | 0326          | 140                 | 467                                  | 3.00                            | 100.0             | 106             | 207           |
| 113.0 | 40.0    | 29 02.0              | 115 58.5              | BD           | 52 04 14                | 2211          | 151                 | 444                                  | 3.41                            | 100.0             | 45              | 125           |
| 113.0 | 60.0    | 28 21.0              | 117 18.5              | BD           | 52 04 14                | 0521          | 132                 | 470                                  | 2.82                            | 100.0             | 44              | 52            |
| 113.0 | 65.0    | 28 12.0              | 117 36.0              | BD           | 52 04 14                | 0237          | 137                 | 467                                  | 2.92                            | 100.0             | 46              | 23            |
| 113.0 | 70.0    | 28 02.0              | 117 55.5              | BD           | 52 04 13                | 2256          | 142                 | 458                                  | 3.10                            | 100.0             | 41              | 82            |
| 117.0 | 26.0    | 28 56.0              | 114 41.0              | BD           | 52 04 12                | 1537          | 70                  | 253                                  | 2.78                            | 100.0             | 12              | 358           |
| 117.0 | 30.0    | 28 48.0              | 114 56.5              | BD           | 52 04 12                | 1825          | 70                  | 251                                  | 2.78                            | 100.0             | 16              | 64            |
| 117.0 | 35.0    | 28 38.0              | 115 16.0              | BD           | 52 04 12                | 2126          | 138                 | 459                                  | 3.00                            | 100.0             | 71              | 47            |
| 117.0 | 40.0    | 28 28.0              | 115 35.5              | BD           | 52 04 12                | 2351          | 138                 | 466                                  | 2.97                            | 100.0             | 95              | 26            |
| 117.0 | 45.0    | 28 18.0              | 115 55.0              | BD           | 52 04 13                | 0321          | 141                 | 451                                  | 3.13                            | 100.0             | 39              | 157           |
| 117.0 | 50.0    | 28 09.0              | 116 16.5              | BD           | 52 04 13                | 0601          | 139                 | 482                                  | 2.88                            | 100.0             | 32              | 10            |
| 117.0 | 55.0    | 28 02.5              | 116 35.0              | BD           | 52 04 13                | 0922          | 140                 | 440                                  | 3.18                            | 100.0             | 14              | 6             |
| 117.0 | 60.0    | 27 47.0              | 116 56.0              | BD           | 52 04 13                | 1146          | 138                 | 449                                  | 3.08                            | 100.0             | 20              | 13            |
| 117.0 | 65.0    | 27 38.0              | 117 12.0              | BD           | 52 04 13                | 1411          | 140                 | 465                                  | 3.01                            | 100.0             | 2               | 12            |
| 117.0 | 70.0    | 27 27.5              | 117 32.5              | BD           | 52 04 13                | 1636          | 140                 | 490                                  | 2.85                            | 100.0             | 30              | 16            |
| 120.0 | 25.0    | 28 23.0              | 114 14.5              | BD           | 52 04 12                | 1024          | 39                  | 165                                  | 2.36                            | 100.0             | 5               | 456           |
| 120.0 | 30.0    | 28 13.0              | 114 34.0              | BD           | 52 04 12                | 0723          | 70                  | 268                                  | 2.63                            | 100.0             | 50              | 355           |
| 120.0 | 35.0    | 28 03.0              | 114 54.0              | BD           | 52 04 12                | 0436          | 62                  | 235                                  | 2.66                            | 100.0             | 31              | 111           |
| 120.0 | 40.0    | 27 57.0              | 115 14.0              | BD           | 52 04 12                | 0209          | 22                  | 150                                  | 1.46                            | 100.0             | 17              | 254           |
| 120.0 | 45.0    | 27 43.0              | 115 33.0              | BD           | 52 04 11                | 2206          | 139                 | 457                                  | 3.03                            | 100.0             | 70              | 778           |
| 120.0 | 45.0    | 27 43.0              | 115 33.0              | BD           | 52 04 15                | 1856          | 139                 | 493                                  | 2.80                            | 100.0             | 256             | 48            |
| 120.0 | 50.0    | 27 31.3              | 115 53.5              | BD           | 52 04 11                | 1836          | 141                 | 463                                  | 3.05                            | 100.0             | 86              | 155           |
| 120.0 | 55.0    | 27 23.0              | 116 12.0              | BD           | 52 04 11                | 1606          | 137                 | 454                                  | 3.02                            | 100.0             | 279             | 981           |
| 120.0 | 60.0    | 27 13.0              | 116 31.5              | BD           | 52 04 11                | 1203          | 141                 | 452                                  | 3.12                            | 100.0             | 26              | 124           |
| 120.0 | 65.0    | 27 03.0              | 116 51.0              | BD           | 52 04 11                | 0934          | 137                 | 466                                  | 2.95                            | 100.0             | 18              | 40            |
| 120.0 | 70.0    | 26 52.5              | 117 10.0              | BD           | 52 04 11                | 0553          | 142                 | 469                                  | 3.02                            | 100.0             | 37              | 35            |
| 120.0 | 80.0    | 26 32.5              | 117 48.5              | BD           | 52 04 10                | 2331          | 147                 | 483                                  | 3.04                            | 100.0             | 15              | 193           |
| 120.0 | 90.0    | 26 12.0              | 118 25.0              | BD           | 52 04 10                | 1751          | 140                 | 476                                  | 2.95                            | 100.0             | 2               | 37            |
| 123.0 | 37.0    | 27 24.0              | 114 41.0              | BD           | 52 04 09                | 1153          | 55                  | 212                                  | 2.59                            | 50.0              | 99              | 514           |
| 123.0 | 40.0    | 27 18.0              | 114 51.5              | BD           | 52 04 09                | 1341          | 143                 | 454                                  | 3.16                            | 100.0             | 13              | 354           |
| 123.0 | 40.0    | 27 17.0              | 114 51.5              | BD           | 52 04 16                | 0142          | 143                 | 466                                  | 3.00                            | 100.0             | 44              | 66            |
| 123.0 | 45.0    | 27 08.0              | 115 10.7              | BD           | 52 04 15                | 2313          | 139                 | 472                                  | 2.92                            | 25.0              | 360             | 572           |
| 123.0 | 45.0    | 27 08.0              | 115 11.0              | BD           | 52 04 09                | 1706          | 139                 | 474                                  | 2.92                            | 100.0             | 140             | 525           |
| 123.0 | 50.0    | 26 58.0              | 115 30.5              | BD           | 52 04 09                | 1936          | 135                 | 478                                  | 2.82                            | 100.0             | 268             | 178           |
| 123.0 | 55.0    | 26 48.0              | 115 49.7              | BD           | 52 04 09                | 2301          | 142                 | 476                                  | 2.99                            | 100.0             | 61              | 40            |
| 123.0 | 60.0    | 26 38.5              | 116 09.0              | BD           | 52 04 10                | 0118          | 137                 | 497                                  | 2.76                            | 100.0             | 35              | 56            |
| 127.0 | 34.0    | 26 55.3              | 114 06.0              | BD           | 52 04 09                | 0639          | 62                  | 255                                  | 2.43                            | 100.0             | 81              | 4             |
| 127.0 | 40.0    | 26 43.5              | 114 29.5              | BD           | 52 04 09                | 0235          | 142                 | 454                                  | 3.13                            | 100.0             | 567             | 291           |
| 127.0 | 45.0    | 26 33.0              | 114 49.0              | BD           | 52 04 09                | 0001          | 144                 | 434                                  | 3.32                            | 100.0             | 452             | 637           |
| 127.0 | 50.0    | 26 23.5              | 115 08.0              | BD           | 52 04 08                | 2011          | 141                 | 476                                  | 2.95                            | 100.0             | 178             | 23            |

TABLE 1. (cont.)

## CalCOFI Cruise 5204

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 127.0 | 55.0    | 26 14.0              | 115 27.0              | BD           | 52 04 08                | 1746          | 141                 | 484                                  | 2.92                            | 100.0             | 47              | 22            |
| 127.0 | 60.0    | 26 04.0              | 115 46.0              | BD           | 52 04 08                | 1436          | 140                 | 490                                  | 2.85                            | 100.0             | 23              | 43            |
| 130.0 | 30.0    | 26 29.0              | 113 29.0              | BD           | 52 04 07                | 1315          | 65                  | 244                                  | 2.68                            | 100.0             | 5               | 0             |
| 130.0 | 35.0    | 26 19.0              | 113 48.5              | BD           | 52 04 07                | 1606          | 135                 | 494                                  | 2.73                            | 100.0             | 101             | 200           |
| 130.0 | 40.0    | 26 09.0              | 114 07.5              | BD           | 52 04 07                | 1916          | 139                 | 479                                  | 2.90                            | 100.0             | 238             | 200           |
| 130.0 | 45.0    | 25 59.0              | 114 26.5              | BD           | 52 04 07                | 2341          | 145                 | 451                                  | 3.21                            | 100.0             | 403             | 89            |
| 130.0 | 50.0    | 25 49.0              | 114 46.0              | BD           | 52 04 08                | 0217          | 143                 | 466                                  | 3.07                            | 100.0             | 939             | 1632          |
| 130.0 | 55.0    | 25 40.0              | 115 05.0              | BD           | 52 04 08                | 0541          | 140                 | 485                                  | 2.89                            | 100.0             | 154             | 908           |
| 130.0 | 60.0    | 25 26.0              | 115 25.0              | BD           | 52 04 08                | 0804          | 140                 | 482                                  | 2.90                            | 100.0             | 307             | 54            |
| 133.0 | 25.0    | 26 04.5              | 112 48.0              | BD           | 52 04 07                | 0748          | 62                  | 260                                  | 2.40                            | 100.0             | 1349            | 433           |
| 133.0 | 30.0    | 25 55.5              | 113 06.5              | BD           | 52 04 07                | 0421          | 141                 | 496                                  | 2.84                            | 50.0              | 145             | 168           |
| 133.0 | 35.0    | 25 44.0              | 113 26.5              | BD           | 52 04 07                | 0151          | 139                 | 473                                  | 2.93                            | 100.0             | 219             | 1280          |
| 133.0 | 40.0    | 25 34.5              | 113 45.5              | BD           | 52 04 06                | 2221          | 149                 | 500                                  | 2.98                            | 100.0             | 106             | 673           |
| 133.0 | 45.0    | 25 24.5              | 114 05.0              | BD           | 52 04 06                | 1953          | 137                 | 489                                  | 2.81                            | 100.0             | 234             | 348           |
| 133.0 | 50.0    | 25 14.5              | 114 24.0              | BD           | 52 04 06                | 1629          | 137                 | 489                                  | 2.67                            | 100.0             | 41              | 32            |
| 133.0 | 60.0    | 24 54.5              | 115 01.5              | BD           | 52 04 06                | 1104          | 136                 | 510                                  | 2.92                            | 100.0             | 233             | 81            |
| 137.0 | 23.0    | 25 34.2              | 112 18.7              | BD           | 52 04 05                | 0849          | 59                  | 256                                  | 2.32                            | 100.0             | 1               | 6             |
| 137.0 | 30.0    | 25 19.5              | 112 46.0              | BD           | 52 04 05                | 1228          | 141                 | 516                                  | 2.72                            | 25.0              | 13              | 10            |
| 137.0 | 35.0    | 25 10.0              | 113 04.5              | BD           | 52 04 05                | 1549          | 137                 | 522                                  | 2.63                            | 100.0             | 382             | 420           |
| 137.0 | 40.0    | 24 59.0              | 113 25.5              | BD           | 52 04 05                | 1819          | 137                 | 535                                  | 2.57                            | 25.0              | 144             | 735           |
| 137.0 | 45.0    | 24 50.0              | 113 42.5              | BD           | 52 04 05                | 2124          | 140                 | 488                                  | 2.88                            | 100.0             | 59              | 834           |
| 137.0 | 50.0    | 24 40.0              | 114 01.5              | BD           | 52 04 05                | 2346          | 139                 | 464                                  | 3.00                            | 100.0             | 98              | 316           |
| 137.0 | 60.0    | 24 18.0              | 114 38.5              | BD           | 52 04 06                | 0506          | 136                 | 509                                  | 2.67                            | 100.0             | 111             | 166           |

TABLE 1. (cont.)

## CalCOFI Cruise 5205

| Line | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 60.0 | 80.0    | 36 57.0               | 125 04.0               | BD           | 52 05 21                | 0231          | 142                 | 512                                  | 2.77                            | 100.0             | 104             | 97            |
| 60.0 | 90.0    | 36 37.0               | 125 47.0               | BD           | 52 05 20                | 1431          | 141                 | 486                                  | 2.91                            | 100.0             | 16              | 13            |
| 60.0 | 100.0   | 36 17.0               | 126 30.0               | BD           | 52 05 20                | 0706          | 139                 | 486                                  | 2.85                            | 100.0             | 13              | 6             |
| 63.0 | 52.0    | 37 19.0               | 122 36.2               | BD           | 52 05 08                | 1913          | 62                  | 299                                  | 2.09                            | 100.0             | 4               | 7             |
| 63.0 | 55.0    | 37 14.0               | 122 49.5               | BD           | 52 05 08                | 2111          | 145                 | 477                                  | 3.05                            | 50.0              | 30              | 31            |
| 63.0 | 60.0    | 37 03.5               | 123 10.7               | BD           | 52 05 09                | 0011          | 138                 | 518                                  | 2.67                            | 25.0              | 19              | 15            |
| 63.0 | 65.0    | 36 53.0               | 123 32.0               | BD           | 52 05 09                | 0301          | 127                 | 571                                  | 2.23                            | 50.0              | 15              | 7             |
| 67.0 | 50.0    | 36 49.0               | 122 04.6               | BD           | 52 05 09                | 2033          | 76                  | 309                                  | 2.47                            | 50.0              | 0               | 15            |
| 67.0 | 55.0    | 36 36.0               | 122 26.0               | BD           | 52 05 09                | 1601          | 138                 | 439                                  | 3.13                            | 50.0              | 9               | 27            |
| 70.0 | 55.0    | 36 03.0               | 122 02.0               | BD           | 52 05 18                | 1046          | 139                 | 493                                  | 2.82                            | 50.0              | 8               | 21            |
| 70.0 | 60.0    | 35 53.0               | 122 23.0               | BD           | 52 05 18                | 1526          | 140                 | 484                                  | 2.89                            | 6.0               | 2               | 1             |
| 70.0 | 65.0    | 35 42.5               | 122 45.0               | BD           | 52 05 18                | 1831          | 139                 | 491                                  | 2.84                            | 50.0              | 16              | 23            |
| 70.0 | 70.0    | 35 33.0               | 123 06.0               | BD           | 52 05 18                | 2051          | 140                 | 474                                  | 2.96                            | 13.0              | 9               | 3             |
| 70.0 | 80.0    | 35 13.0               | 123 48.0               | BD           | 52 05 19                | 0326          | 130                 | 527                                  | 2.48                            | 100.0             | 26              | 3             |
| 70.0 | 90.0    | 34 53.0               | 124 30.0               | BD           | 52 05 19                | 0916          | 141                 | 505                                  | 2.79                            | 100.0             | 13              | 6             |
| 70.0 | 100.0   | 34 33.0               | 125 12.0               | BD           | 52 05 19                | 1416          | 142                 | 484                                  | 2.94                            | 100.0             | 18              | 13            |
| 73.0 | 50.0    | 35 37.0               | 121 16.6               | BD           | 52 05 18                | 0433          | 68                  | 270                                  | 2.52                            | 100.0             | 13              | 2             |
| 73.0 | 55.0    | 35 27.5               | 121 37.0               | BD           | 52 05 18                | 0141          | 141                 | 492                                  | 2.86                            | 50.0              | 15              | 5             |
| 73.0 | 60.0    | 35 18.0               | 121 58.4               | BD           | 52 05 17                | 2141          | 140                 | 472                                  | 2.97                            | 100.0             | 35              | 26            |
| 77.0 | 55.0    | 34 54.0               | 120 52.0               | BD           | 52 05 17                | 0456          | 136                 | 504                                  | 2.70                            | 50.0              | 35              | 21            |
| 77.0 | 60.0    | 34 44.0               | 121 34.0               | BD           | 52 05 17                | 0817          | 139                 | 464                                  | 2.99                            | 100.0             | 20              | 124           |
| 77.0 | 65.0    | 34 44.0               | 121 55.0               | BD           | 52 05 17                | 1141          | 141                 | 486                                  | 2.91                            | 100.0             | 41              | 753           |
| 80.0 | 51.0    | 34 34.0               | 120 32.5               | BD           | 52 05 15                | 1421          | 141                 | 445                                  | 3.18                            | 100.0             | 48              | 185           |
| 80.0 | 55.0    | 34 19.0               | 120 48.0               | BD           | 52 05 15                | 1536          | 141                 | 510                                  | 2.77                            | 100.0             | 8               | 12            |
| 80.0 | 60.0    | 34 09.0               | 121 09.0               | BD           | 52 05 15                | 0751          | 137                 | 572                                  | 2.39                            | 100.0             | 7               | 13            |
| 80.0 | 70.0    | 33 49.0               | 121 51.0               | BD           | 52 05 14                | 1657          | 132                 | 510                                  | 2.60                            | 100.0             | 32              | 57            |
| 80.0 | 80.0    | 33 29.0               | 122 32.0               | BD           | 52 05 13                | 2256          | 132                 | 536                                  | 2.46                            | 100.0             | 5               | 89            |
| 80.0 | 85.0    | 33 19.0               | 122 53.0               | BD           | 52 05 13                | 2011          | 142                 | 494                                  | 2.87                            | 100.0             | 43              | 19            |
| 80.0 | 90.0    | 33 09.0               | 123 13.0               | BD           | 52 05 13                | 1626          | 137                 | 514                                  | 2.66                            | 100.0             | 28              | 91            |
| 80.0 | 100.0   | 32 49.0               | 123 54.0               | BD           | 52 05 13                | 1041          | 142                 | 527                                  | 2.69                            | 100.0             | 46              | 13            |
| 83.0 | 43.0    | 34 08.0               | 119 34.0               | BD           | 52 05 11                | 1631          | 137                 | 512                                  | 2.68                            | 25.0              | 24              | 8             |
| 83.0 | 55.0    | 33 44.0               | 120 24.5               | BD           | 52 05 12                | 0026          | 142                 | 450                                  | 3.16                            | 100.0             | 347             | 104           |
| 83.0 | 60.0    | 33 34.0               | 120 45.0               | BD           | 52 05 12                | 0656          | 140                 | 543                                  | 2.58                            | 50.0              | 83              | 936           |
| 83.0 | 65.0    | 33 24.0               | 121 05.0               | BD           | 52 05 12                | 1131          | 132                 | 473                                  | 2.79                            | 25.0              | 11              | 1332          |
| 83.0 | 70.0    | 33 14.5               | 121 26.0               | BD           | 52 05 12                | 1401          | 139                 | 479                                  | 2.91                            | 100.0             | 61              | 793           |
| 83.0 | 75.0    | 33 04.0               | 121 47.0               | BD           | 52 05 12                | 1751          | 148                 | 508                                  | 2.91                            | 100.0             | 12              | 134           |
| 83.0 | 80.0    | 32 54.5               | 122 07.5               | BD           | 52 05 12                | 2026          | 137                 | 501                                  | 2.74                            | 100.0             | 30              | 14            |
| 83.0 | 85.0    | 32 44.0               | 122 28.0               | BD           | 52 05 13                | 0011          | 136                 | 503                                  | 2.70                            | 100.0             | 18              | 83            |
| 83.0 | 90.0    | 32 34.5               | 122 48.0               | BD           | 52 05 13                | 0241          | 140                 | 501                                  | 2.79                            | 100.0             | 12              | 30            |
| 87.0 | 35.0    | 33 48.9               | 118 37.3               | SB           | 52 05 09                | 0556          | 141                 | 479                                  | 2.95                            | 100.0             | 14              | 13            |
| 87.0 | 40.0    | 33 40.0               | 118 58.0               | SB           | 52 05 09                | 0941          | 142                 | 464                                  | 3.07                            | 100.0             | 12              | 0             |
| 87.0 | 45.0    | 33 30.0               | 119 18.8               | SB           | 52 05 09                | 1216          | 145                 | 480                                  | 3.02                            | 100.0             | 15              | 15            |
| 87.0 | 50.0    | 33 20.6               | 119 40.5               | SB           | 52 05 09                | 1517          | 54                  | 340                                  | 1.59                            | 100.0             | 165             | 714           |
| 87.0 | 55.0    | 33 11.0               | 119 59.9               | SB           | 52 05 09                | 1805          | 143                 | 461                                  | 3.10                            | 100.0             | 96              | 250           |

TABLE 1. (cont.)

## CalCOFI Cruise 5205

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 87.0  | 60.0    | 32 58.0              | 120 18.0              | SB           | 52 05 09                | 2206          | 132                 | 503                                  | 3.43                            | 25.0              | 26              | 178           |
| 87.0  | 65.0    | 32 49.0              | 120 14.2              | SB           | 52 05 10                | 0106          | 142                 | 462                                  | 3.07                            | 50.0              | 63              | 513           |
| 87.0  | 70.0    | 32 39.5              | 121 02.0              | SB           | 52 05 10                | 0451          | 156                 | 360                                  | 4.34                            | 50.0              | 43              | 732           |
| 87.0  | 75.0    | 32 30.0              | 121 23.0              | SB           | 52 05 10                | 0720          | 140                 | 484                                  | 2.89                            | 100.0             | 31              | 2023          |
| 87.0  | 80.0    | 32 17.0              | 121 44.6              | SB           | 52 05 10                | 1136          | 133                 | 538                                  | 2.47                            | 100.0             | 12              | 172           |
| 90.0  | 28.0    | 33 27.7              | 117 48.0              | SB           | 52 05 12                | 1400          | 133                 | 521                                  | 2.55                            | 100.0             | 50              | 618           |
| 90.0  | 30.0    | 33 24.5              | 117 55.0              | SB           | 52 05 12                | 1206          | 117                 | 538                                  | 2.18                            | 100.0             | 47              | 179           |
| 90.0  | 37.0    | 33 12.0              | 118 22.0              | SB           | 52 05 12                | 0821          | 131                 | 415                                  | 3.15                            | 100.0             | 55              | 404           |
| 90.0  | 45.0    | 32 54.5              | 118 56.0              | SB           | 52 05 12                | 0336          | 142                 | 605                                  | 2.35                            | 100.0             | 77              | 275           |
| 90.0  | 53.0    | 32 38.0              | 119 25.0              | SB           | 52 05 11                | 2215          | 122                 | 418                                  | 2.92                            | 100.0             | 175             | 55            |
| 90.0  | 60.0    | 32 24.8              | 119 56.1              | SB           | 52 05 11                | 1711          | 132                 | 485                                  | 2.73                            | 100.0             | 61              | 778           |
| 90.0  | 65.0    | 32 08.9              | 120 24.0              | SB           | 52 05 11                | 1250          | 142                 | 466                                  | 3.05                            | 100.0             | 5               | 68            |
| 90.0  | 75.0    | 31 54.6              | 120 58.9              | SB           | 52 05 11                | 0456          | 141                 | 476                                  | 2.97                            | 100.0             | 217             | 403           |
| 90.0  | 80.0    | 31 45.0              | 121 19.0              | SB           | 52 05 11                | 0206          | 141                 | 489                                  | 2.39                            | 100.0             | 210             | 765           |
| 90.0  | 90.0    | 31 25.0              | 121 59.0              | SB           | 52 05 10                | 1936          | 134                 | 509                                  | 2.63                            | 100.0             | 134             | 342           |
| 93.0  | 27.0    | 32 56.0              | 117 20.0              | ES           | 52 05 13                | 2021          | 136                 | 525                                  | 2.59                            | 100.0             | 250             | 1072          |
| 93.0  | 30.0    | 32 49.8              | 117 32.2              | ES           | 52 05 13                | 2256          | 148                 | 461                                  | 3.20                            | 100.0             | 287             | 183           |
| 93.0  | 35.0    | 32 40.2              | 117 52.5              | ES           | 52 05 14                | 0151          | 153                 | 468                                  | 3.27                            | 100.0             | 178             | 689           |
| 93.0  | 40.0    | 32 30.9              | 118 13.4              | ES           | 52 05 14                | 0536          | 148                 | 439                                  | 3.36                            | 100.0             | 79              | 294           |
| 93.0  | 45.0    | 32 18.5              | 118 31.5              | ES           | 52 05 14                | 0841          | 144                 | 445                                  | 3.24                            | 100.0             | 98              | 252           |
| 93.0  | 50.0    | 32 09.3              | 118 47.1              | ES           | 52 05 14                | 1236          | 151                 | 476                                  | 3.17                            | 100.0             | 85              | 356           |
| 93.0  | 55.0    | 32 00.0              | 119 11.3              | ES           | 52 05 14                | 1601          | 139                 | 480                                  | 2.91                            | 100.0             | 281             | 613           |
| 93.0  | 60.0    | 31 51.4              | 119 35.4              | ES           | 52 05 14                | 2056          | 147                 | 450                                  | 3.27                            | 100.0             | 115             | 186           |
| 93.0  | 65.0    | 31 32.0              | 119 55.5              | ES           | 52 05 14                | 2356          | 142                 | 437                                  | 3.26                            | 100.0             | 60              | 61            |
| 93.0  | 70.0    | 31 27.9              | 120 17.8              | ES           | 52 05 15                | 0352          | 143                 | 477                                  | 2.99                            | 100.0             | 68              | 101           |
| 93.0  | 75.0    | 31 16.7              | 120 32.0              | ES           | 52 05 15                | 0631          | 145                 | 454                                  | 3.20                            | 100.0             | 68              | 65            |
| 93.0  | 80.0    | 31 05.6              | 120 58.1              | ES           | 52 05 15                | 0950          | 144                 | 452                                  | 3.19                            | 100.0             | 117             | 39            |
| 97.0  | 30.0    | 32 15.1              | 117 08.4              | ES           | 52 05 17                | 0634          | 21                  | 124                                  | 1.66                            | 100.0             | 94              | 17            |
| 97.0  | 35.0    | 32 05.8              | 117 30.0              | ES           | 52 05 17                | 0331          | 136                 | 370                                  | 3.68                            | 100.0             | 213             | 79            |
| 97.0  | 40.0    | 31 55.5              | 117 50.0              | ES           | 52 05 17                | 0101          | 141                 | 449                                  | 3.15                            | 100.0             | 140             | 240           |
| 97.0  | 45.0    | 31 46.5              | 118 09.0              | ES           | 52 05 16                | 2111          | 131                 | 489                                  | 2.68                            | 50.0              | 234             | 478           |
| 97.0  | 50.0    | 31 35.4              | 118 30.3              | ES           | 52 05 16                | 1826          | 139                 | 485                                  | 2.86                            | 100.0             | 16              | 66            |
| 97.0  | 55.0    | 31 25.5              | 118 50.0              | ES           | 52 05 16                | 1431          | 141                 | 404                                  | 3.49                            | 100.0             | 16              | 62            |
| 97.0  | 60.0    | 31 15.9              | 119 10.7              | ES           | 52 05 16                | 1143          | 145                 | 350                                  | 4.14                            | 100.0             | 11              | 80            |
| 97.0  | 65.0    | 31 07.8              | 119 26.0              | ES           | 52 05 16                | 0831          | 140                 | 352                                  | 3.98                            | 100.0             | 19              | 17            |
| 97.0  | 70.0    | 30 57.0              | 119 47.6              | ES           | 52 05 16                | 0606          | 139                 | 365                                  | 3.82                            | 100.0             | 65              | 44            |
| 97.0  | 75.0    | 30 46.0              | 120 09.0              | ES           | 52 05 16                | 0200          | 138                 | 478                                  | 2.89                            | 100.0             | 111             | 39            |
| 97.0  | 80.0    | 30 36.9              | 120 29.0              | ES           | 52 05 15                | 2316          | 151                 | 415                                  | 3.65                            | 100.0             | 88              | 325           |
| 97.0  | 90.0    | 30 16.3              | 121 11.5              | ES           | 52 05 15                | 1656          | 139                 | 492                                  | 2.82                            | 100.0             | 54              | 110           |
| 100.0 | 29.0    | 31 42.2              | 116 43.5              | PT           | 52 05 19                | 2326          | 94                  | 534                                  | 1.77                            | 50.0              | 49              | 23            |
| 100.0 | 30.0    | 31 41.0              | 116 46.5              | PT           | 52 05 20                | 0110          | 132                 | 558                                  | 2.37                            | 50.0              | 54              | 29            |
| 100.0 | 40.0    | 31 23.0              | 117 26.0              | PT           | 52 05 20                | 0726          | 130                 | 512                                  | 2.54                            | 100.0             | 42              | 45            |
| 100.0 | 45.0    | 31 13.0              | 117 47.0              | PT           | 52 05 20                | 1006          | 134                 | 566                                  | 2.36                            | 50.0              | 50              | 701           |
| 100.0 | 50.0    | 31 05.0              | 118 07.0              | PT           | 52 05 20                | 1501          | 124                 | 542                                  | 2.28                            | 100.0             | 33              | 575           |
| 100.0 | 55.0    | 30 54.0              | 118 29.0              | PT           | 52 05 20                | 1751          | 133                 | 383                                  | 3.48                            | 100.0             | 38              | 203           |

TABLE 1. (cont.)

## CalCOFI Cruise 5205

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 100.0 | 60.0    | 30 46.0              | 118 48.0              | PT           | 52 05 20           | 2136          | 136                 | 455                                  | 2.98                            | 100.0             | 73              | 198           |
| 100.0 | 65.0    | 30 35.0              | 119 03.0              | PT           | 52 05 21           | 0039          | 168                 | 346                                  | 4.85                            | 100.0             | 27              | 65            |
| 100.0 | 70.0    | 30 26.0              | 119 17.0              | PT           | 52 05 21           | 0438          | 137                 | 529                                  | 2.58                            | 100.0             | 1               | 2             |
| 100.0 | 75.0    | 30 13.0              | 119 36.0              | PT           | 52 05 21           | 0724          | 119                 | 615                                  | 1.94                            | 100.0             | 52              | 116           |
| 100.0 | 80.0    | 29 48.5              | 120 12.0              | PT           | 52 05 21           | 1304          | 126                 | 546                                  | 2.31                            | 100.0             | 15              | 169           |
| 100.0 | 90.0    | 29 40.5              | 120 47.0              | PT           | 52 05 21           | 1854          | 143                 | 484                                  | 2.96                            | 100.0             | 49              | 246           |
| 103.0 | 30.0    | 31 00.0              | 116 25.2              | PT           | 52 05 23           | 2103          | 41                  | 306                                  | 1.33                            | 25.0              | 14              | 0             |
| 103.0 | 35.0    | 30 37.0              | 116 49.0              | PT           | 52 05 23           | 1559          | 145                 | 510                                  | 2.85                            | 100.0             | 35              | 63            |
| 103.0 | 40.0    | 30 29.0              | 117 10.0              | PT           | 52 05 23           | 1229          | 144                 | 540                                  | 2.67                            | 100.0             | 91              | 1318          |
| 103.0 | 45.0    | 30 22.0              | 117 29.0              | PT           | 52 05 23           | 0849          | 134                 | 594                                  | 2.26                            | 100.0             | 58              | 1599          |
| 103.0 | 50.0    | 30 14.0              | 117 50.0              | PT           | 52 05 23           | 0514          | 135                 | 476                                  | 2.84                            | 100.0             | 61              | 101           |
| 103.0 | 60.0    | 30 00.0              | 118 28.0              | PT           | 52 05 22           | 2153          | 140                 | 472                                  | 2.96                            | 100.0             | 80              | 178           |
| 103.0 | 65.0    | 29 53.0              | 118 48.0              | PT           | 52 05 22           | 1724          | 141                 | 532                                  | 2.66                            | 100.0             | 52              | 134           |
| 103.0 | 70.0    | 29 45.0              | 119 06.5              | PT           | 52 05 22           | 1439          | 149                 | 471                                  | 3.17                            | 100.0             | 62              | 208           |
| 103.0 | 75.0    | 29 29.0              | 119 20.0              | PT           | 52 05 22           | 1054          | 131                 | 545                                  | 2.40                            | 100.0             | 22              | 230           |
| 103.0 | 80.0    | 29 26.0              | 119 42.0              | PT           | 52 05 22           | 0754          | 131                 | 575                                  | 2.28                            | 100.0             | 24              | 232           |
| 103.0 | 90.0    | 29 06.0              | 120 25.0              | PT           | 52 05 22           | 0132          | 146                 | 515                                  | 2.84                            | 100.0             | 75              | 386           |
| 107.0 | 32.0    | 30 25.9              | 116 11.0              | PT           | 52 05 24           | 0214          | 129                 | 606                                  | 2.13                            | 50.0              | 59              | 12            |
| 107.0 | 35.0    | 30 20.0              | 116 23.0              | PT           | 52 05 24           | 0454          | 133                 | 614                                  | 2.16                            | 50.0              | 94              | 32            |
| 107.0 | 40.0    | 30 10.8              | 116 43.5              | PT           | 52 05 24           | 0829          | 138                 | 564                                  | 2.46                            | 100.0             | 18              | 49            |
| 107.0 | 45.0    | 30 02.0              | 117 03.0              | PT           | 52 05 24           | 1119          | 135                 | 615                                  | 2.20                            | 100.0             | 34              | 173           |
| 107.0 | 50.0    | 29 51.0              | 117 21.0              | PT           | 52 05 24           | 1509          | 137                 | 398                                  | 3.43                            | 100.0             | 27              | 190           |
| 107.0 | 60.0    | 29 31.0              | 118 00.0              | PT           | 52 05 24           | 2123          | 134                 | 521                                  | 2.57                            | 100.0             | 132             | 335           |
| 107.0 | 70.0    | 29 11.2              | 118 43.0              | PT           | 52 05 25           | 1724          | 143                 | 541                                  | 2.65                            | 100.0             | 54              | 194           |
| 107.0 | 80.0    | 28 52.5              | 119 20.5              | PT           | 52 05 25           | 2333          | 143                 | 530                                  | 2.70                            | 100.0             | 70              | 272           |
| 110.0 | 33.0    | 29 50.0              | 115 53.5              | SB           | 52 05 25           | 0628          | 72                  | 362                                  | 2.00                            | 100.0             | 37              | 11            |
| 110.0 | 35.0    | 29 46.2              | 116 00.5              | SB           | 52 05 25           | 0456          | 141                 | 435                                  | 3.25                            | 100.0             | 202             | 78            |
| 110.0 | 40.0    | 29 37.0              | 116 20.0              | SB           | 52 05 25           | 0131          | 132                 | 472                                  | 2.80                            | 100.0             | 205             | 57            |
| 110.0 | 45.0    | 29 27.0              | 116 39.0              | SB           | 52 05 24           | 2231          | 143                 | 290                                  | 4.94                            | 100.0             | 67              | 59            |
| 110.0 | 50.0    | 29 16.5              | 116 59.0              | SB           | 52 05 24           | 2011          | 143                 | 385                                  | 3.70                            | 100.0             | 83              | 37            |
| 110.0 | 60.0    | 28 56.0              | 117 39.0              | SB           | 52 05 24           | 1436          | 138                 | 468                                  | 2.95                            | 100.0             | 36              | 110           |
| 110.0 | 70.0    | 28 36.0              | 118 18.0              | SB           | 52 05 24           | 0911          | 144                 | 415                                  | 3.47                            | 100.0             | 35              | 1190          |
| 110.0 | 80.0    | 28 16.0              | 118 57.0              | SB           | 52 05 24           | 0346          | 141                 | 459                                  | 3.07                            | 100.0             | 130             | 154           |
| 110.0 | 90.0    | 28 01.0              | 119 36.0              | SB           | 52 05 23           | 2306          | 134                 | 491                                  | 2.72                            | 100.0             | 240             | 130           |
| 113.0 | 30.0    | 29 22.4              | 115 17.6              | SB           | 52 05 22           | 1728          | 42                  | 259                                  | 1.61                            | 100.0             | 16              | 110           |
| 113.0 | 35.0    | 29 12.5              | 115 37.0              | SB           | 52 05 22           | 1931          | 142                 | 447                                  | 3.17                            | 100.0             | 42              | 575           |
| 113.0 | 40.0    | 28 58.5              | 116 02.5              | SB           | 52 05 22           | 2256          | 140                 | 456                                  | 3.07                            | 100.0             | 46              | 21            |
| 113.0 | 45.0    | 28 50.0              | 116 21.0              | SB           | 52 05 23           | 0110          | 133                 | 524                                  | 2.53                            | 100.0             | 61              | 101           |
| 113.0 | 50.0    | 28 36.0              | 116 34.0              | SB           | 52 05 23           | 0406          | 139                 | 438                                  | 3.18                            | 100.0             | 45              | 134           |
| 113.0 | 55.0    | 28 21.0              | 116 58.5              | SB           | 52 05 23           | 0616          | 141                 | 453                                  | 3.10                            | 100.0             | 50              | 60            |
| 113.0 | 60.0    | 28 22.0              | 117 17.0              | SB           | 52 05 23           | 0916          | 142                 | 453                                  | 3.14                            | 100.0             | 22              | 54            |
| 113.0 | 65.0    | 28 13.0              | 117 37.0              | SB           | 52 05 23           | 1116          | 139                 | 424                                  | 3.28                            | 100.0             | 45              | 99            |
| 113.0 | 70.0    | 28 04.0              | 117 56.0              | SB           | 52 05 23           | 1356          | 142                 | 444                                  | 3.21                            | 100.0             | 45              | 113           |
| 117.0 | 26.0    | 28 56.0              | 114 41.0              | SB           | 52 05 22           | 1319          | 42                  | 280                                  | 1.51                            | 100.0             | 31              | 746           |
| 117.0 | 30.0    | 28 48.0              | 114 57.0              | SB           | 52 05 22           | 1111          | 72                  | 406                                  | 1.78                            | 100.0             | 39              | 80            |



TABLE 1. (cont.)

## CalCOFI Cruise 5205

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 117.0 | 35.0    | 28 37.0              | 115 17.5              | SB           | 52 05 22           | 0836          | 140                 | 457                                  | 3.06                            | 100.0             | 63              | 140           |
| 117.0 | 40.0    | 28 28.0              | 115 37.6              | SB           | 52 05 22           | 0726          | 138                 | 481                                  | 2.86                            | 100.0             | 25              | 83            |
| 117.0 | 45.0    | 28 18.0              | 115 55.0              | SB           | 52 05 22           | 0321          | 129                 | 591                                  | 2.19                            | 100.0             | 26              | 25            |
| 117.0 | 50.0    | 27 55.0              | 116 04.0              | SB           | 52 05 22           | 0056          | 135                 | 516                                  | 2.62                            | 100.0             | 52              | 433           |
| 117.0 | 55.0    | 27 27.2              | 116 33.0              | SB           | 52 05 21           | 1941          | 156                 | 431                                  | 3.61                            | 100.0             | 51              | 33            |
| 117.0 | 60.0    | 27 15.0              | 116 57.0              | SB           | 52 05 21           | 1731          | 139                 | 533                                  | 2.62                            | 100.0             | 10              | 24            |
| 117.0 | 65.0    | 27 15.2              | 117 20.2              | SB           | 52 05 21           | 1441          | 144                 | 476                                  | 3.02                            | 100.0             | 26              | 11            |
| 117.0 | 70.0    | 27 15.0              | 117 42.0              | SB           | 52 05 21           | 1241          | 145                 | 429                                  | 3.38                            | 100.0             | 16              | 32            |
| 120.0 | 25.0    | 28 24.0              | 114 16.0              | SB           | 52 05 19           | 2038          | 44                  | 228                                  | 1.93                            | 100.0             | 121             | 1051          |
| 120.0 | 30.0    | 28 13.0              | 114 33.5              | SB           | 52 05 19           | 2228          | 72                  | 366                                  | 1.96                            | 100.0             | 290             | 1668          |
| 120.0 | 35.0    | 28 03.0              | 114 54.5              | SB           | 52 05 20           | 0103          | 53                  | 349                                  | 1.51                            | 50.0              | 120             | 1162          |
| 120.0 | 40.0    | 27 55.0              | 115 17.0              | SB           | 52 05 20           | 0304          | 39                  | 297                                  | 1.31                            | 100.0             | 122             | 803           |
| 120.0 | 45.0    | 27 43.6              | 115 33.2              | SB           | 52 05 20           | 0551          | 143                 | 438                                  | 3.25                            | 100.0             | 157             | 797           |
| 120.0 | 50.0    | 27 31.0              | 115 56.0              | SB           | 52 05 20           | 0926          | 141                 | 455                                  | 3.09                            | 100.0             | 17              | 84            |
| 120.0 | 55.0    | 27 21.0              | 116 14.0              | SB           | 52 05 20           | 0116          | 130                 | 499                                  | 2.60                            | 100.0             | 18              | 63            |
| 120.0 | 60.0    | 27 15.0              | 116 32.0              | SB           | 52 05 20           | 1426          | 134                 | 468                                  | 2.87                            | 100.0             | 16              | 38            |
| 120.0 | 65.0    | 27 03.0              | 116 51.9              | SB           | 52 05 20           | 1636          | 135                 | 488                                  | 2.77                            | 100.0             | 26              | 56            |
| 120.0 | 70.0    | 26 52.5              | 117 11.0              | SB           | 52 05 20           | 1906          | 145                 | 428                                  | 3.39                            | 100.0             | 61              | 237           |
| 120.0 | 80.0    | 26 32.0              | 117 48.0              | SB           | 52 05 21           | 0000          | 126                 | 538                                  | 2.34                            | 100.0             | 70              | 1368          |
| 120.0 | 90.0    | 26 13.0              | 118 28.0              | SB           | 52 05 21           | 0426          | 141                 | 481                                  | 2.93                            | 100.0             | 18              | 170           |
| 123.0 | 37.0    | 27 24.0              | 114 40.0              | SB           | 52 05 19           | 0014          | 36                  | 279                                  | 1.29                            | 50.0              | 59              | 272           |
| 123.0 | 40.0    | 27 18.0              | 114 51.0              | SB           | 52 05 18           | 2211          | 146                 | 466                                  | 3.13                            | 100.0             | 104             | 519           |
| 123.0 | 45.0    | 27 08.0              | 115 04.0              | SB           | 52 05 18           | 1911          | 155                 | 379                                  | 4.10                            | 100.0             | 43              | 44            |
| 123.0 | 50.0    | 26 58.0              | 115 30.5              | SB           | 52 05 18           | 1721          | 136                 | 462                                  | 2.95                            | 100.0             | 37              | 211           |
| 123.0 | 55.0    | 26 48.0              | 115 50.0              | SB           | 52 05 18           | 1416          | 135                 | 520                                  | 2.60                            | 100.0             | 22              | 520           |
| 123.0 | 60.0    | 26 40.0              | 116 14.0              | SB           | 52 05 18           | 1141          | 141                 | 454                                  | 3.10                            | 100.0             | 15              | 295           |
| 127.0 | 34.0    | 26 55.3              | 114 06.0              | SB           | 52 05 17           | 1627          | 54                  | 364                                  | 1.47                            | 50.0              | 11              | 532           |
| 127.0 | 40.0    | 26 42.8              | 114 31.3              | SB           | 52 05 17           | 1946          | 145                 | 448                                  | 3.24                            | 100.0             | 84              | 233           |
| 127.0 | 45.0    | 26 33.0              | 114 50.0              | SB           | 52 05 17           | 2156          | 144                 | 428                                  | 3.37                            | 100.0             | 187             | 131           |
| 127.0 | 50.0    | 26 24.0              | 115 08.0              | SB           | 52 05 18           | 0121          | 138                 | 434                                  | 3.17                            | 100.0             | 54              | 501           |
| 127.0 | 55.0    | 26 14.0              | 115 28.0              | SB           | 52 05 18           | 0326          | 134                 | 494                                  | 2.72                            | 100.0             | 28              | 277           |
| 127.0 | 60.0    | 26 03.5              | 115 46.5              | SB           | 52 05 18           | 0616          | 143                 | 442                                  | 3.23                            | 100.0             | 37              | 51            |
| 130.0 | 30.0    | 26 29.0              | 113 30.0              | SB           | 52 05 17           | 1147          | 57                  | 402                                  | 1.41                            | 50.0              | 1               | 4             |
| 130.0 | 35.0    | 26 19.5              | 113 48.5              | SB           | 52 05 17           | 0941          | 145                 | 444                                  | 3.26                            | 100.0             | 81              | 560           |
| 130.0 | 40.0    | 26 01.0              | 114 23.0              | SB           | 52 05 17           | 0526          | 128                 | 474                                  | 2.70                            | 100.0             | 21              | 170           |
| 130.0 | 45.0    | 25 58.0              | 114 26.0              | SB           | 52 05 17           | 0126          | 131                 | 483                                  | 2.71                            | 100.0             | 170             | 58            |
| 130.0 | 50.0    | 25 38.0              | 115 05.0              | SB           | 52 05 16           | 2256          | 141                 | 495                                  | 2.84                            | 100.0             | 264             | 119           |
| 130.0 | 55.0    | 25 28.0              | 115 26.0              | SB           | 52 05 16           | 1936          | 140                 | 441                                  | 3.17                            | 100.0             | 54              | 588           |
| 130.0 | 60.0    | 25 17.0              | 115 48.0              | SB           | 52 05 16           | 1641          | 135                 | 473                                  | 2.86                            | 100.0             | 34              | 236           |
| 133.0 | 25.0    | 26 05.0              | 112 48.0              | SB           | 52 05 15           | 1708          | 40                  | 292                                  | 1.38                            | 100.0             | 248             | 513           |
| 133.0 | 30.0    | 25 54.5              | 113 07.5              | SB           | 52 05 15           | 2001          | 134                 | 535                                  | 2.50                            | 25.0              | 18              | 0             |
| 133.0 | 35.0    | 25 49.0              | 113 28.0              | SB           | 52 05 15           | 2236          | 125                 | 487                                  | 2.56                            | 100.0             | 130             | 113           |
| 133.0 | 40.0    | 25 34.5              | 113 45.0              | SB           | 52 05 16           | 0241          | 132                 | 495                                  | 2.66                            | 100.0             | 110             | 59            |
| 133.0 | 45.0    | 25 23.9              | 114 04.5              | SB           | 52 05 16           | 0511          | 115                 | 522                                  | 2.20                            | 100.0             | 21              | 341           |
| 133.0 | 50.0    | 25 14.5              | 114 24.0              | SB           | 52 05 16           | 0826          | 136                 | 520                                  | 2.62                            | 100.0             | 15              | 47            |

TABLE 1. (cont.)

## CalCOFI Cruise 5205

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 137.0 | 23.0    | 25 35.0               | 112 19.0               | SB           | 52 05 15                | 1232          | 36                  | 325                                  | 1.12                            | 100.0             | 12              | 85            |
| 137.0 | 30.0    | 25 07.0               | 112 47.0               | SB           | 52 05 15                | 0746          | 128                 | 581                                  | 2.21                            | 100.0             | 24              | 36            |
| 137.0 | 35.0    | 25 07.0               | 113 04.2               | SB           | 52 05 15                | 0416          | 116                 | 598                                  | 1.95                            | 100.0             | 25              | 79            |
| 137.0 | 40.0    | 24 53.0               | 113 25.0               | SB           | 52 05 15                | 0206          | 128                 | 514                                  | 2.49                            | 100.0             | 4               | 6             |
| 137.0 | 45.0    | 24 50.0               | 113 43.0               | SB           | 52 05 14                | 2251          | 137                 | 601                                  | 2.29                            | 100.0             | 236             | 112           |
| 137.0 | 50.0    | 24 40.0               | 114 01.5               | SB           | 52 05 14                | 2036          | 133                 | 512                                  | 2.60                            | 100.0             | 40              | 222           |

TABLE 1. (cont.)

## CalCOFI Cruise 5206

| Line | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 50.0 | 50.0    | 39 40.5              | 124 09.0              | SB           | 52 06 16                | 0007          | 118                 | 564                                  | 2.09                            | 25.0              | 37              | 1             |
| 53.0 | 52.0    | 39 02.0              | 123 51.1              | SB           | 52 06 15                | 1628          | 55                  | 320                                  | 1.71                            | 100.0             | 28              | 3             |
| 53.0 | 55.0    | 38 56.0              | 124 04.0              | SB           | 52 06 15                | 1406          | 104                 | 543                                  | 1.91                            | 50.0              | 20              | 20            |
| 53.0 | 65.0    | 38 34.0              | 124 55.0              | SB           | 52 06 15                | 0906          | 147                 | 418                                  | 3.52                            | 25.0              | 5               | 1             |
| 57.0 | 51.0    | 28 29.8              | 123 22.5              | SB           | 52 06 14                | 1703          | 126                 | 489                                  | 2.58                            | 25.0              | 2               | 9             |
| 57.0 | 55.0    | 38 22.1              | 123 39.5              | SB           | 52 06 14                | 2002          | 61                  | 549                                  | 1.11                            | 50.0              | 52              | 19            |
| 57.0 | 65.0    | 38 02.1              | 124 25.0              | SB           | 52 06 15                | 0216          | 112                 | 560                                  | 2.00                            | 25.0              | 18              | 6             |
| 60.0 | 55.0    | 37 48.9              | 123 19.8              | SB           | 52 06 13                | 0323          | 59                  | 300                                  | 1.96                            | 50.0              | 29              | 9             |
| 60.0 | 60.0    | 37 33.7              | 123 33.0              | SB           | 52 06 13                | 0056          | 145                 | 494                                  | 2.94                            | 25.0              | 23              | 0             |
| 60.0 | 65.0    | 37 25.0              | 124 00.0              | SB           | 52 06 12                | 2106          | 140                 | 460                                  | 3.05                            | 50.0              | 36              | 10            |
| 60.0 | 70.0    | 37 18.9              | 124 22.1              | SB           | 52 06 12                | 1856          | 140                 | 481                                  | 2.92                            | 50.0              | 7               | 25            |
| 60.0 | 90.0    | 36 18.3              | 125 49.9              | SB           | 52 06 12                | 0956          | 138                 | 487                                  | 2.83                            | 100.0             | 19              | 6             |
| 60.0 | 100.0   | 36 15.4              | 126 25.2              | SB           | 52 06 12                | 0541          | 145                 | 454                                  | 3.21                            | 100.0             | 6               | 17            |
| 63.0 | 52.0    | 37 19.5              | 122 36.2              | SB           | 52 06 17                | 0643          | 56                  | 327                                  | 1.72                            | 100.0             | 4               | 9             |
| 63.0 | 55.0    | 37 14.0              | 122 49.5              | SB           | 52 06 17                | 0446          | 131                 | 494                                  | 2.65                            | 100.0             | 23              | 29            |
| 63.0 | 60.0    | 37 03.5              | 123 10.5              | SB           | 52 06 17                | 0126          | 138                 | 478                                  | 2.90                            | 50.0              | 17              | 6             |
| 63.0 | 65.0    | 36 50.0              | 123 48.0              | SB           | 52 06 16                | 2131          | 135                 | 479                                  | 2.83                            | 100.0             | 15              | 9             |
| 67.0 | 50.0    | 36 49.0              | 122 05.0              | SB           | 52 06 17                | 1108          | 55                  | 312                                  | 1.77                            | 100.0             | 3               | 35            |
| 67.0 | 55.0    | 36 39.0              | 122 26.0              | SB           | 52 06 17                | 1406          | 137                 | 507                                  | 2.70                            | 50.0              | 7               | 4             |
| 67.0 | 60.0    | 36 29.0              | 122 47.5              | SB           | 52 06 17                | 1616          | 140                 | 366                                  | 3.82                            | 25.0              | 3               | 3             |
| 67.0 | 65.0    | 36 19.0              | 123 09.0              | SB           | 52 06 17                | 1916          | 129                 | 359                                  | 3.59                            | 25.0              | 1               | 1             |
| 70.0 | 55.0    | 36 03.0              | 122 02.0              | SB           | 52 06 10                | 1736          | 114                 | 555                                  | 2.06                            | 25.0              | 2               | 5             |
| 70.0 | 60.0    | 35 54.0              | 122 27.0              | SB           | 52 06 10                | 2110          | 141                 | 443                                  | 3.18                            | 50.0              | 13              | 11            |
| 70.0 | 65.0    | 35 43.5              | 122 54.0              | SB           | 52 06 10                | 2331          | 134                 | 477                                  | 2.81                            | 50.0              | 14              | 2             |
| 70.0 | 70.0    | 35 33.0              | 123 21.0              | SB           | 52 06 11                | 0406          | 146                 | 465                                  | 3.14                            | 50.0              | 18              | 4             |
| 70.0 | 75.0    | 35 25.0              | 123 43.0              | SB           | 52 06 11                | 0631          | 141                 | 455                                  | 3.11                            | 50.0              | 7               | 1             |
| 70.0 | 80.0    | 35 22.0              | 123 50.0              | SB           | 52 06 11                | 0816          | 136                 | 427                                  | 3.19                            | 50.0              | 13              | 13            |
| 70.0 | 90.0    | 35 00.0              | 124 34.0              | SB           | 52 06 11                | 1311          | 127                 | 486                                  | 2.62                            | 100.0             | 6               | 90            |
| 70.0 | 100.0   | 34 37.0              | 125 05.0              | SB           | 52 06 11                | 1726          | 135                 | 502                                  | 2.69                            | 100.0             | 28              | 78            |
| 73.0 | 55.0    | 35 27.5              | 121 37.5              | SB           | 52 06 10                | 1128          | 70                  | 389                                  | 1.79                            | 100.0             | 4               | 3             |
| 77.0 | 50.0    | 35 04.4              | 120 52.0              | SB           | 52 06 09                | 0906          | 137                 | 469                                  | 2.92                            | 100.0             | 50              | 16            |
| 77.0 | 55.0    | 35 04.8              | 121 12.2              | SB           | 52 06 09                | 1723          | 70                  | 337                                  | 2.07                            | 100.0             | 1               | 7             |
| 77.0 | 60.0    | 34 44.5              | 121 33.0              | SB           | 52 06 09                | 2231          | 140                 | 436                                  | 3.21                            | 50.0              | 26              | 3             |
| 80.0 | 51.0    | 34 26.3              | 120 33.6              | SB           | 52 06 09                | 1258          | 140                 | 460                                  | 3.05                            | 25.0              | 6               | 7             |
| 80.0 | 55.0    | 34 17.0              | 120 46.0              | SB           | 52 06 09                | 1121          | 136                 | 501                                  | 1.69                            | 100.0             | 14              | 21            |
| 80.0 | 60.0    | 34 03.0              | 121 08.0              | SB           | 52 06 09                | 0826          | 141                 | 488                                  | 2.89                            | 100.0             | 9               | 19            |
| 80.0 | 65.0    | 33 56.6              | 121 28.0              | SB           | 52 06 09                | 0531          | 139                 | 437                                  | 3.19                            | 50.0              | 18              | 379           |
| 80.0 | 70.0    | 33 49.0              | 121 51.0              | SB           | 52 06 09                | 0326          | 141                 | 483                                  | 2.91                            | 50.0              | 41              | 369           |
| 80.0 | 80.0    | 33 29.0              | 122 32.0              | SB           | 52 06 08                | 2216          | 126                 | 498                                  | 2.52                            | 100.0             | 13              | 373           |
| 80.0 | 90.0    | 33 09.0              | 123 13.0              | SB           | 52 06 08                | 1656          | 130                 | 490                                  | 2.65                            | 100.0             | 10              | 7             |
| 80.0 | 100.0   | 32 49.3              | 123 54.2              | SB           | 52 06 08                | 1241          | 137                 | 484                                  | 2.82                            | 100.0             | 13              | 114           |
| 83.0 | 43.0    | 34 08.0              | 119 34.0              | SB           | 52 06 06                | 1136          | 133                 | 553                                  | 2.41                            | 100.0             | 36              | 132           |
| 83.0 | 55.0    | 33 44.0              | 120 24.5              | SB           | 52 06 07                | 0841          | 131                 | 531                                  | 2.51                            | 50.0              | 59              | 319           |
| 83.0 | 60.0    | 33 31.0              | 120 43.0              | SB           | 52 06 07                | 1206          | 105                 | 599                                  | 1.76                            | 50.0              | 14              | 1017          |
|      |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 | 242           |

TABLE 1. (cont.)

| CalCOFI Cruise 5206 |         |                       |                        |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 83.0                | 70.0    | 33 14.5               | 121 26.0               | SB           | 52 06 07                | 1746          | 140                 | 476                                  | 2.94                            | 100.0             | 67              | 644           |
| 83.0                | 75.0    | 33 06.0               | 121 46.0               | SB           | 52 06 07                | 2011          | 135                 | 517                                  | 2.62                            | 25.0              | 4               | 34            |
| 83.0                | 80.0    | 32 54.0               | 122 08.0               | SB           | 52 06 08                | 0006          | 126                 | 595                                  | 2.12                            | 100.0             | 103             | 61            |
| 83.0                | 90.0    | 32 35.6               | 122 51.9               | SB           | 52 06 08                | 0620          | 127                 | 460                                  | 2.76                            | 100.0             | 20              | 40            |
| 87.0                | 35.0    | 33 50.0               | 118 37.0               | BD           | 52 06 13                | 2229          | 71                  | 251                                  | 2.85                            | 100.0             | 90              | 13            |
| 87.0                | 35.0    | 33 50.0               | 118 37.5               | YE           | 52 06 03                | 0814          | 106                 | 541                                  | 1.95                            | 100.0             | 116             | 362           |
| 87.0                | 40.0    | 33 40.0               | 118 58.5               | YE           | 52 06 03                | 1155          | 120                 | 497                                  | 2.41                            | 100.0             | 35              | 7             |
| 87.0                | 45.0    | 33 29.7               | 119 18.7               | YE           | 52 06 03                | 1535          | 124                 | 511                                  | 2.42                            | 100.0             | 21              | 0             |
| 87.0                | 50.0    | 33 20.0               | 119 39.5               | YE           | 52 06 03                | 1833          | 33                  | 207                                  | 1.62                            | 100.0             | 16              | 34            |
| 87.0                | 55.0    | 33 10.2               | 120 00.2               | YE           | 52 06 03                | 2113          | 127                 | 467                                  | 2.72                            | 50.0              | 156             | 110           |
| 87.0                | 60.0    | 32 57.5               | 120 20.0               | YE           | 52 06 03                | 2356          | 129                 | 391                                  | 3.31                            | 25.0              | 38              | 29            |
| 87.0                | 70.0    | 32 39.5               | 121 02.0               | YE           | 52 06 04                | 0611          | 127                 | 228                                  | 5.60                            | 50.0              | 43              | 80            |
| 87.0                | 80.0    | 32 12.0               | 121 43.0               | YE           | 52 06 04                | 1207          | 120                 | 418                                  | 2.88                            | 100.0             | 79              | 194           |
| 90.0                | 28.0    | 33 28.5               | 117 46.5               | YE           | 52 06 06                | 1629          | 32                  | 274                                  | 1.19                            | 50.0              | 37              | 119           |
| 90.0                | 28.0    | 33 28.5               | 117 46.7               | BD           | 52 06 12                | 2048          | 136                 | 510                                  | 2.68                            | 50.0              | 98              | 50            |
| 90.0                | 30.0    | 33 24.5               | 117 55.0               | YE           | 52 06 06                | 1328          | 72                  | 379                                  | 1.91                            | 100.0             | 38              | 15            |
| 90.0                | 30.0    | 33 24.5               | 117 55.0               | BD           | 52 06 12                | 1848          | 137                 | 503                                  | 2.71                            | 100.0             | 30              | 8             |
| 90.0                | 30.0    | 33 24.5               | 117 55.0               | BD           | 52 06 06                | 1848          | 135                 | 538                                  | 2.50                            | 100.0             | 36              | 16            |
| 90.0                | 31.0    | 33 23.0               | 117 59.0               | BD           | 52 06 12                | 1748          | 143                 | 477                                  | 2.99                            | 100.0             | 13              | 11            |
| 90.0                | 33.0    | 33 19.0               | 118 07.0               | BD           | 52 06 12                | 1634          | 139                 | 498                                  | 2.80                            | 100.0             | 38              | 2             |
| 90.0                | 35.0    | 33 15.0               | 118 15.0               | BD           | 52 06 12                | 1516          | 141                 | 478                                  | 2.95                            | 100.0             | 23              | 1             |
| 90.0                | 37.0    | 33 10.7               | 118 23.0               | BD           | 52 06 06                | 2126          | 139                 | 527                                  | 2.63                            | 50.0              | 344             | 76            |
| 90.0                | 37.0    | 33 11.0               | 118 23.5               | BD           | 52 06 12                | 0856          | 139                 | 519                                  | 2.68                            | 100.0             | 58              | 2             |
| 90.0                | 37.0    | 33 11.5               | 118 23.5               | YE           | 52 06 06                | 0922          | 120                 | 440                                  | 2.73                            | 100.0             | 49              | 4             |
| 90.0                | 39.0    | 33 06.5               | 118 32.5               | BD           | 52 06 12                | 1054          | 142                 | 479                                  | 2.96                            | 100.0             | 15              | 9             |
| 90.0                | 41.0    | 33 03.0               | 118 40.0               | BD           | 52 06 12                | 1206          | 145                 | 470                                  | 3.07                            | 100.0             | 29              | 121           |
| 90.0                | 45.0    | 32 54.5               | 118 56.0               | BD           | 52 06 07                | 0111          | 138                 | 527                                  | 2.61                            | 50.0              | 52              | 0             |
| 90.0                | 45.0    | 32 55.5               | 118 56.5               | YE           | 52 06 06                | 0456          | 129                 | 385                                  | 3.35                            | 50.0              | 21              | 0             |
| 90.0                | 53.0    | 32 39.5               | 119 30.0               | YE           | 52 06 06                | 0001          | 125                 | 412                                  | 3.03                            | 100.0             | 157             | 18            |
| 90.0                | 53.0    | 32 38.5               | 119 29.0               | BD           | 52 06 07                | 0516          | 144                 | 494                                  | 2.91                            | 100.0             | 81              | 154           |
| 90.0                | 60.0    | 32 25.5               | 119 59.5               | YE           | 52 06 05                | 1946          | 138                 | 373                                  | 3.68                            | 100.0             | 39              | 196           |
| 90.0                | 60.0    | 32 25.0               | 119 52.5               | BD           | 52 06 07                | 0901          | 140                 | 488                                  | 2.87                            | 100.0             | 179             | 303           |
| 90.0                | 65.0    | 32 14.0               | 120 18.0               | YE           | 52 06 05                | 1731          | 130                 | 386                                  | 3.36                            | 100.0             | 41              | 583           |
| 90.0                | 70.0    | 32 04.5               | 120 39.0               | YE           | 52 06 05                | 1410          | 126                 | 399                                  | 3.16                            | 50.0              | 15              | 553           |
| 90.0                | 80.0    | 31 48.5               | 121 14.0               | YE           | 52 06 05                | 0920          | 124                 | 433                                  | 2.85                            | 100.0             | 25              | 206           |
| 90.0                | 90.0    | 31 25.0               | 121 59.0               | YE           | 52 06 05                | 0414          | 128                 | 448                                  | 2.86                            | 100.0             | 16              | 472           |
| 90.0                | 100.0   | 31 04.5               | 122 40.0               | YE           | 52 06 04                | 2135          | 122                 | 441                                  | 2.75                            | 100.0             | 63              | 93            |
| 93.0                | 27.0    | 32 56.0               | 117 19.2               | YE           | 52 06 06                | 2048          | 65                  | 247                                  | 2.63                            | 100.0             | 107             | 34            |
| 93.0                | 30.0    | 32 50.0               | 117 31.5               | BD           | 52 06 06                | 1226          | 135                 | 549                                  | 2.47                            | 100.0             | 69              | 41            |
| 93.0                | 30.0    | 32 50.0               | 117 31.5               | YE           | 52 06 06                | 2251          | 128                 | 407                                  | 3.14                            | 100.0             | 80              | 120           |
| 93.0                | 35.0    | 32 40.0               | 117 52.0               | YE           | 52 06 07                | 0206          | 125                 | 389                                  | 3.22                            | 100.0             | 80              | 16            |
| 93.0                | 40.0    | 32 30.0               | 118 12.5               | BD           | 52 06 12                | 0316          | 144                 | 487                                  | 2.96                            | 50.0              | 32              | 8             |
| 93.0                | 40.0    | 32 30.0               | 118 12.5               | YE           | 52 06 07                | 0431          | 132                 | 376                                  | 3.51                            | 100.0             | 140             | 4             |
| 93.0                | 45.0    | 32 20.0               | 118 33.0               | YE           | 52 06 07                | 0806          | 129                 | 366                                  | 3.53                            | 50.0              | 30              | 6             |
| 93.0                | 50.0    | 32 10.0               | 118 53.5               | YE           | 52 06 07                | 1006          | 135                 | 356                                  | 3.78                            | 50.0              | 35              | 10            |

TABLE 1. (cont.)

## CalCOFI Cruise 5206

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 93.0  | 50.0    | 32 10.0               | 118 53.5               | BD           | 52 06 11                | 2111          | 140                 | 497                                  | 2.81                            | 100.0             | 53              | 28            |
| 93.0  | 55.0    | 31 59.0               | 119 13.0               | YE           | 52 06 07                | 1315          | 136                 | 387                                  | 3.50                            | 100.0             | 145             | 38            |
| 93.0  | 60.0    | 31 50.0               | 119 34.0               | BD           | 52 06 07                | 1356          | 144                 | 476                                  | 3.02                            | 100.0             | 25              | 31            |
| 93.0  | 60.0    | 31 48.5               | 119 32.0               | YE           | 52 06 07                | 1536          | 132                 | 361                                  | 3.67                            | 100.0             | 41              | 41            |
| 93.0  | 65.0    | 31 37.0               | 119 53.0               | YE           | 52 06 07                | 1841          | 132                 | 405                                  | 3.26                            | 100.0             | 59              | 44            |
| 93.0  | 70.0    | 31 27.5               | 120 13.0               | YE           | 52 06 07                | 2051          | 134                 | 381                                  | 3.52                            | 100.0             | 138             | 198           |
| 93.0  | 80.0    | 31 07.0               | 120 53.0               | YE           | 52 06 08                | 0205          | 138                 | 362                                  | 3.81                            | 100.0             | 40              | 143           |
| 97.0  | 30.0    | 32 15.4               | 117 08.8               | BD           | 52 06 10                | 1324          | 36                  | 136                                  | 2.68                            | 6.0               | 1               | 27            |
| 97.0  | 30.0    | 32 15.5               | 117 09.0               | YE           | 52 06 09                | 1813          | 38                  | 196                                  | 1.93                            | 100.0             | 4               | 189           |
| 97.0  | 32.0    | 32 11.5               | 117 17.0               | BD           | 52 06 10                | 1433          | 142                 | 467                                  | 3.04                            | 100.0             | 26              | 2             |
| 97.0  | 36.0    | 32 05.0               | 117 33.0               | YE           | 52 06 09                | 1436          | 121                 | 427                                  | 2.83                            | 100.0             | 36              | 27            |
| 97.0  | 40.0    | 31 55.5               | 117 50.0               | BD           | 52 06 10                | 1911          | 142                 | 468                                  | 3.03                            | 100.0             | 25              | 60            |
| 97.0  | 45.0    | 31 46.0               | 118 10.0               | YE           | 52 06 09                | 0956          | 122                 | 396                                  | 3.07                            | 100.0             | 51              | 352           |
| 97.0  | 50.0    | 31 35.5               | 118 30.5               | YE           | 52 06 09                | 0642          | 122                 | 418                                  | 2.93                            | 100.0             | 72              | 58            |
| 97.0  | 50.0    | 31 35.5               | 118 30.5               | BD           | 52 06 11                | 1135          | 144                 | 488                                  | 3.34                            | 100.0             | 79              | 116           |
| 97.0  | 55.0    | 31 25.5               | 118 51.0               | YE           | 52 06 09                | 0357          | 123                 | 402                                  | 2.95                            | 100.0             | 116             | 214           |
| 97.0  | 60.0    | 31 15.5               | 119 10.5               | BD           | 52 06 07                | 1836          | 139                 | 500                                  | 3.06                            | 100.0             | 128             | 70            |
| 97.0  | 65.0    | 31 05.0               | 119 31.0               | YE           | 52 06 08                | 2346          | 127                 | 390                                  | 3.26                            | 100.0             | 112             | 219           |
| 97.0  | 70.0    | 30 53.0               | 119 50.5               | YE           | 52 06 08                | 2126          | 124                 | 393                                  | 3.14                            | 100.0             | 102             | 275           |
| 97.0  | 80.0    | 30 35.0               | 120 31.0               | YE           | 52 06 08                | 1821          | 128                 | 402                                  | 3.19                            | 100.0             | 119             | 201           |
| 97.0  | 90.0    | 30 11.0               | 120 55.0               | YE           | 52 06 08                | 0826          | 122                 | 404                                  | 3.03                            | 100.0             | 59              | 28            |
| 100.0 | 29.0    | 31 42.1               | 116 42.5               | YE           | 52 06 09                | 0729          | 50                  | 214                                  | 1.82                            | 25.0              | 0               | 49            |
| 100.0 | 29.0    | 31 42.2               | 116 43.4               | BD           | 52 06 09                | 2329          | 42                  | 229                                  | 2.32                            | 100.0             | 44              | 190           |
| 100.0 | 30.0    | 31 40.5               | 116 46.5               | BD           | 52 06 10                | 0029          | 157                 | 341                                  | 2.52                            | 100.0             | 2               | 1             |
| 100.0 | 30.0    | 31 40.0               | 116 46.5               | YE           | 52 06 09                | 0641          | 135                 | 534                                  | 4.60                            | 50.0              | 9               | 7             |
| 100.0 | 35.0    | 31 30.0               | 117 07.0               | YE           | 52 06 09                | 1336          | 139                 | 467                                  | 2.75                            | 100.0             | 12              | 28            |
| 100.0 | 35.0    | 31 31.0               | 117 07.0               | BD           | 52 06 10                | 0326          | 122                 | 444                                  | 2.97                            | 100.0             | 80              | 55            |
| 100.0 | 40.0    | 31 21.0               | 117 27.0               | BD           | 52 06 10                | 0607          | 144                 | 465                                  | 4.57                            | 100.0             | 179             | 56            |
| 100.0 | 40.0    | 31 21.0               | 117 27.0               | BD           | 52 06 10                | 2351          | 144                 | 315                                  | 4.57                            | 100.0             | 34              | 46            |
| 100.0 | 45.0    | 31 09.0               | 117 50.0               | YE           | 52 06 10                | 0917          | 126                 | 357                                  | 3.10                            | 100.0             | 80              | 24            |
| 100.0 | 50.0    | 31 01.0               | 118 07.0               | YE           | 52 06 10                | 1110          | 124                 | 385                                  | 3.53                            | 100.0             | 36              | 62            |
| 100.0 | 50.0    | 31 01.0               | 118 07.0               | BD           | 52 06 11                | 0552          | 142                 | 505                                  | 3.22                            | 100.0             | 30              | 49            |
| 100.0 | 55.0    | 30 51.0               | 118 28.0               | YE           | 52 06 10                | 1505          | 131                 | 396                                  | 3.31                            | 100.0             | 46              | 31            |
| 100.0 | 60.0    | 30 41.0               | 118 47.5               | YE           | 52 06 10                | 1707          | 121                 | 399                                  | 3.04                            | 100.0             | 50              | 29            |
| 100.0 | 60.0    | 30 41.0               | 119 06.0               | BD           | 52 06 07                | 2301          | 143                 | 476                                  | 3.00                            | 100.0             | 21              | 100           |
| 100.0 | 65.0    | 30 31.0               | 119 06.0               | YE           | 52 06 10                | 2036          | 136                 | 364                                  | 3.72                            | 100.0             | 51              | 63            |
| 100.0 | 70.0    | 30 19.5               | 119 27.0               | YE           | 52 06 10                | 2253          | 135                 | 445                                  | 3.02                            | 100.0             | 32              | 34            |
| 100.0 | 80.0    | 29 58.5               | 120 07.0               | YE           | 52 06 11                | 0437          | 128                 | 370                                  | 3.47                            | 100.0             | 65              | 30            |
| 100.0 | 90.0    | 29 36.0               | 120 48.0               | YE           | 52 06 11                | 1042          | 131                 | 352                                  | 3.73                            | 100.0             | 77              | 245           |
| 100.0 | 100.0   | 29 20.5               | 121 27.0               | YE           | 52 06 11                | 1601          | 127                 | 382                                  | 3.32                            | 100.0             | 28              | 123           |
| 103.0 | 30.0    | 31 05.2               | 116 25.0               | YE           | 52 06 13                | 0814          | 40                  | 250                                  | 1.59                            | 100.0             | 13              | 51            |
| 103.0 | 30.0    | 31 05.0               | 116 25.0               | BD           | 52 06 08                | 2148          | 520                 | 214                                  | 2.44                            | 50.0              | 14              | 16            |
| 103.0 | 35.0    | 30 55.5               | 116 45.0               | BD           | 52 06 08                | 1816          | 140                 | 499                                  | 2.81                            | 100.0             | 5               | 44            |

TABLE 1. (cont.)

## CalCOFI Cruise 5206

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 103.0 | 35.0    | 30 55.5               | 116 45.0               | YE           | 52 06 13                | 0506          | 113                 | 483                                  | 2.34                            | 100.0             | 34              | 5             |
| 103.0 | 40.0    | 30 45.5               | 117 05.5               | BD           | 52 06 08                | 1526          | 144                 | 509                                  | 2.83                            | 100.0             | 6               | 5             |
| 103.0 | 50.0    | 30 25.0               | 117 45.0               | BD           | 52 06 08                | 0910          | 142                 | 501                                  | 2.82                            | 100.0             | 24              | 60            |
| 103.0 | 55.0    | 30 16.0               | 118 05.0               | YE           | 52 06 12                | 1952          | 133                 | 352                                  | 3.77                            | 100.0             | 35              | 2             |
| 103.0 | 60.0    | 30 06.0               | 118 25.5               | BD           | 52 06 08                | 0346          | 138                 | 494                                  | 2.80                            | 100.0             | 40              | 88            |
| 103.0 | 65.0    | 29 56.5               | 118 45.5               | YE           | 52 06 12                | 1357          | 130                 | 356                                  | 3.66                            | 100.0             | 43              | 89            |
| 103.0 | 70.0    | 29 48.5               | 119 04.0               | YE           | 52 06 12                | 1015          | 125                 | 397                                  | 3.15                            | 100.0             | 86              | 37            |
| 103.0 | 75.0    | 29 36.0               | 119 26.0               | YE           | 52 06 12                | 0726          | 122                 | 420                                  | 2.91                            | 100.0             | 41              | 222           |
| 103.0 | 80.0    | 29 25.0               | 119 52.0               | YE           | 52 06 12                | 0337          | 134                 | 359                                  | 3.73                            | 100.0             | 85              | 88            |
| 103.0 | 90.0    | 29 06.0               | 120 25.0               | YE           | 52 06 11                | 2205          | 138                 | 558                                  | 2.48                            | 100.0             | 61              | 200           |
| 107.0 | 32.0    | 30 25.5               | 116 10.5               | CR           | 52 06 21                | 1235          | 138                 | 393                                  | 3.51                            | 100.0             | 3               | 12            |
| 107.0 | 35.0    | 30 16.0               | 116 22.5               | CR           | 52 06 21                | 1031          | 134                 | 419                                  | 3.21                            | 100.0             | 29              | 102           |
| 107.0 | 40.0    | 30 08.0               | 116 42.0               | CR           | 52 06 21                | 0746          | 140                 | 450                                  | 3.10                            | 100.0             | 32              | 162           |
| 107.0 | 45.0    | 29 58.5               | 117 04.0               | CR           | 52 06 21                | 0406          | 138                 | 423                                  | 3.27                            | 100.0             | 93              | 100           |
| 107.0 | 50.0    | 29 50.0               | 117 24.0               | CR           | 52 06 21                | 0141          | 141                 | 466                                  | 3.02                            | 100.0             | 44              | 135           |
| 107.0 | 55.0    | 29 41.8               | 117 43.0               | CR           | 52 06 20                | 2231          | 139                 | 460                                  | 3.03                            | 100.0             | 49              | 159           |
| 107.0 | 60.0    | 29 33.0               | 118 04.0               | CR           | 52 06 20                | 2011          | 137                 | 461                                  | 2.97                            | 100.0             | 31              | 323           |
| 107.0 | 65.0    | 29 23.5               | 118 25.0               | CR           | 52 06 20                | 1651          | 152                 | 424                                  | 3.59                            | 100.0             | 36              | 159           |
| 107.0 | 70.0    | 29 14.0               | 118 44.0               | CR           | 52 06 20                | 1431          | 142                 | 420                                  | 3.38                            | 100.0             | 28              | 140           |
| 110.0 | 33.0    | 29 50.5               | 115 52.0               | CR           | 52 06 18                | 1634          | 42                  | 218                                  | 1.93                            | 100.0             | 13              | 6             |
| 110.0 | 35.0    | 29 46.5               | 116 00.0               | CR           | 52 06 18                | 1851          | 130                 | 478                                  | 2.73                            | 100.0             | 16              | 190           |
| 110.0 | 40.0    | 29 36.5               | 116 19.5               | CR           | 52 06 18                | 2216          | 142                 | 438                                  | 3.25                            | 100.0             | 49              | 48            |
| 110.0 | 45.0    | 29 26.0               | 116 39.0               | CR           | 52 06 19                | 0026          | 145                 | 411                                  | 2.61                            | 100.0             | 29              | 204           |
| 110.0 | 50.0    | 29 17.0               | 117 00.0               | CR           | 52 06 19                | 0406          | 141                 | 390                                  | 3.62                            | 100.0             | 192             | 183           |
| 110.0 | 55.0    | 29 05.2               | 117 18.0               | CR           | 52 06 19                | 0626          | 145                 | 392                                  | 3.71                            | 100.0             | 48              | 47            |
| 110.0 | 60.0    | 28 54.0               | 117 38.0               | CR           | 52 06 19                | 0936          | 140                 | 432                                  | 3.24                            | 100.0             | 24              | 155           |
| 110.0 | 65.0    | 28 43.6               | 117 57.0               | CR           | 52 06 19                | 1156          | 138                 | 368                                  | 3.74                            | 100.0             | 63              | 182           |
| 110.0 | 70.0    | 28 36.0               | 118 18.0               | CR           | 52 06 19                | 1446          | 143                 | 400                                  | 3.56                            | 100.0             | 95              | 175           |
| 110.0 | 80.0    | 28 15.0               | 118 58.0               | CR           | 52 06 19                | 2011          | 139                 | 448                                  | 3.10                            | 100.0             | 152             | 607           |
| 110.0 | 90.0    | 27 57.0               | 119 36.0               | CR           | 52 06 20                | 0121          | 141                 | 422                                  | 3.35                            | 100.0             | 145             | 245           |
| 113.0 | 30.0    | 29 25.0               | 115 20.0               | CR           | 52 06 18                | 1134          | 46                  | 232                                  | 1.98                            | 100.0             | 49              | 154           |
| 113.0 | 35.0    | 29 13.2               | 115 38.0               | CR           | 52 06 18                | 0921          | 133                 | 282                                  | 2.76                            | 100.0             | 4               | 14            |
| 113.0 | 40.0    | 29 02.0               | 115 58.0               | CR           | 52 06 18                | 0646          | 136                 | 423                                  | 3.23                            | 100.0             | 28              | 210           |
| 113.0 | 45.0    | 28 52.0               | 116 18.0               | CR           | 52 06 18                | 0336          | 145                 | 406                                  | 3.57                            | 100.0             | 28              | 48            |
| 113.0 | 50.0    | 28 42.0               | 116 38.0               | CR           | 52 06 18                | 0107          | 149                 | 378                                  | 3.94                            | 100.0             | 64              | 6             |
| 113.0 | 55.0    | 28 32.2               | 116 51.2               | CR           | 52 06 17                | 2146          | 139                 | 429                                  | 3.24                            | 100.0             | 75              | 221           |
| 113.0 | 60.0    | 28 22.0               | 117 17.0               | CR           | 52 06 17                | 1926          | 147                 | 451                                  | 3.25                            | 100.0             | 89              | 49            |
| 113.0 | 65.0    | 28 12.0               | 117 35.8               | CR           | 52 06 17                | 1616          | 138                 | 429                                  | 3.23                            | 100.0             | 39              | 223           |
| 113.0 | 70.0    | 28 02.0               | 117 55.0               | CR           | 52 06 17                | 1356          | 135                 | 462                                  | 2.93                            | 100.0             | 124             | 263           |
| 117.0 | 26.0    | 28 55.3               | 114 42.3               | CR           | 52 06 16                | 0844          | 48                  | 257                                  | 1.87                            | 100.0             | 214             | 836           |
| 117.0 | 30.0    | 28 48.0               | 114 56.5               | CR           | 52 06 16                | 1048          | 55                  | 343                                  | 1.60                            | 100.0             | 23              | 167           |
| 117.0 | 35.0    | 28 33.1               | 116 35.2               | CR           | 52 06 16                | 1356          | 138                 | 374                                  | 3.71                            | 100.0             | 18              | 76            |
| 117.0 | 40.0    | 28 28.0               | 115 37.0               | CR           | 52 06 16                | 1606          | 131                 | 445                                  | 2.95                            | 100.0             | 15              | 8             |
| 117.0 | 45.0    | 28 18.1               | 115 55.0               | CR           | 52 06 16                | 1811          | 138                 | 434                                  | 3.18                            | 100.0             | 21              | 5             |

TABLE 1. (cont.)

## CalCOFI Cruise 5206

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 117.0 | 50.0    | 28 07.7              | 116 15.0              | CR           | 52 06 16           | 2116          | 145                 | 442                                  | 3.29                            | 100.0             | 14              | 3             |
| 117.0 | 55.0    | 27 52.0              | 116 34.5              | CR           | 52 06 17           | 0001          | 144                 | 375                                  | 3.83                            | 100.0             | 258             | 327           |
| 117.0 | 60.0    | 27 48.0              | 116 54.0              | CR           | 52 06 17           | 0301          | 112                 | 501                                  | 2.24                            | 100.0             | 0               | 0             |
| 117.0 | 65.0    | 27 37.0              | 117 13.5              | CR           | 52 06 17           | 0526          | 138                 | 438                                  | 3.14                            | 100.0             | 126             | 68            |
| 117.0 | 70.0    | 27 24.0              | 117 38.0              | CR           | 52 06 17           | 0826          | 145                 | 436                                  | 3.32                            | 100.0             | 55              | 458           |
| 120.0 | 25.0    | 28 23.0              | 114 15.0              | CR           | 52 06 16           | 0419          | 36                  | 180                                  | 2.03                            | 100.0             | 473             | 676           |
| 120.0 | 30.0    | 28 13.0              | 114 35.0              | CR           | 52 06 16           | 0153          | 56                  | 306                                  | 1.82                            | 25.0              | 579             | 638           |
| 120.0 | 35.0    | 28 03.0              | 114 54.0              | CR           | 52 06 15           | 2318          | 59                  | 278                                  | 2.11                            | 25.0              | 524             | 693           |
| 120.0 | 40.0    | 27 54.5              | 115 09.5              | CR           | 52 06 15           | 1329          | 22                  | 119                                  | 1.89                            | 100.0             | 870             | 725           |
| 120.0 | 45.0    | 27 45.0              | 115 33.0              | CR           | 52 06 15           | 1041          | 137                 | 448                                  | 3.05                            | 100.0             | 46              | 81            |
| 120.0 | 50.0    | 27 33.0              | 115 52.5              | CR           | 52 06 15           | 0631          | 133                 | 471                                  | 2.83                            | 100.0             | 66              | 102           |
| 120.0 | 55.0    | 27 22.6              | 116 13.0              | CR           | 52 06 15           | 0245          | 139                 | 446                                  | 3.12                            | 100.0             | 264             | 142           |
| 120.0 | 60.0    | 27 12.0              | 116 30.0              | CR           | 52 06 15           | 0021          | 144                 | 442                                  | 3.25                            | 100.0             | 52              | 91            |
| 120.0 | 65.0    | 27 02.0              | 116 52.4              | CR           | 52 06 14           | 2021          | 142                 | 433                                  | 3.27                            | 100.0             | 149             | 194           |
| 120.0 | 70.0    | 26 52.5              | 117 10.0              | CR           | 52 06 14           | 1741          | 138                 | 516                                  | 2.68                            | 100.0             | 30              | 345           |
| 120.0 | 80.0    | 26 33.0              | 117 48.0              | CR           | 52 06 14           | 1211          | 141                 | 456                                  | 3.09                            | 100.0             | 24              | 211           |
| 120.0 | 90.0    | 26 20.0              | 118 30.0              | CR           | 52 06 14           | 0431          | 141                 | 472                                  | 2.99                            | 100.0             | 9               | 51            |
| 123.0 | 37.0    | 27 23.0              | 114 41.5              | CR           | 52 06 12           | 2158          | 40                  | 267                                  | 1.52                            | 50.0              | 54              | 262           |
| 123.0 | 40.0    | 27 17.0              | 114 51.0              | CR           | 52 06 13           | 0021          | 139                 | 454                                  | 3.07                            | 100.0             | 158             | 187           |
| 123.0 | 45.0    | 27 08.0              | 115 11.0              | CR           | 52 06 13           | 0256          | 138                 | 452                                  | 3.05                            | 100.0             | 25              | 23            |
| 123.0 | 50.0    | 26 55.0              | 115 29.5              | CR           | 52 06 13           | 0656          | 140                 | 444                                  | 3.15                            | 100.0             | 17              | 256           |
| 123.0 | 55.0    | 26 48.1              | 115 49.2              | CR           | 52 06 13           | 0926          | 146                 | 423                                  | 3.46                            | 100.0             | 18              | 281           |
| 123.0 | 60.0    | 26 38.0              | 116 10.0              | CR           | 52 06 13           | 1412          | 128                 | 444                                  | 2.87                            | 100.0             | 53              | 311           |
| 127.0 | 34.0    | 26 55.5              | 114 06.0              | CR           | 52 06 11           | 2323          | 57                  | 293                                  | 1.94                            | 25.0              | 38              | 52            |
| 127.0 | 40.0    | 26 40.0              | 114 31.0              | CR           | 52 06 11           | 1933          | 142                 | 442                                  | 3.21                            | 100.0             | 1               | 1             |
| 127.0 | 45.0    | 26 33.2              | 114 45.0              | CR           | 52 06 11           | 1611          | 138                 | 472                                  | 2.92                            | 100.0             | 181             | 73            |
| 127.0 | 50.0    | 26 24.0              | 115 08.0              | CR           | 52 06 11           | 1322          | 136                 | 476                                  | 2.86                            | 100.0             | 54              | 91            |
| 127.0 | 55.0    | 26 13.5              | 115 26.0              | CR           | 52 06 11           | 1016          | 145                 | 465                                  | 3.12                            | 100.0             | 33              | 20            |
| 127.0 | 60.0    | 26 01.0              | 115 51.5              | CR           | 52 06 11           | 0625          | 140                 | 488                                  | 2.88                            | 100.0             | 54              | 79            |
| 130.0 | 30.0    | 26 19.0              | 113 29.0              | CR           | 52 06 10           | 0223          | 58                  | 319                                  | 1.83                            | 100.0             | 184             | 25            |
| 130.0 | 35.0    | 26 18.0              | 113 48.5              | CR           | 52 06 10           | 0556          | 143                 | 449                                  | 3.18                            | 100.0             | 41              | 3             |
| 130.0 | 40.0    | 26 09.0              | 114 05.0              | CR           | 52 06 10           | 0956          | 153                 | 437                                  | 3.51                            | 100.0             | 67              | 50            |
| 130.0 | 45.0    | 25 58.0              | 115 33.1              | CR           | 52 06 10           | 0956          | 140                 | 469                                  | 2.99                            | 100.0             | 17              | 26            |
| 130.0 | 50.0    | 25 49.0              | 114 46.0              | CR           | 52 06 10           | 1256          | 140                 | 491                                  | 2.94                            | 100.0             | 93              | 1360          |
| 130.0 | 55.0    | 25 30.0              | 115 07.5              | CR           | 52 06 10           | 1626          | 144                 | 491                                  | 2.90                            | 100.0             | 90              | 71            |
| 130.0 | 60.0    | 25 28.5              | 115 24.0              | CR           | 52 06 10           | 1906          | 137                 | 474                                  | 2.90                            | 100.0             | 276             | 149           |
| 133.0 | 25.0    | 26 01.0              | 112 48.5              | CR           | 52 06 10           | 2326          | 141                 | 558                                  | 2.52                            | 100.0             | 1               | 0             |
| 133.0 | 30.0    | 25 51.5              | 113 06.0              | CR           | 52 06 09           | 1738          | 65                  | 284                                  | 2.29                            | 50.0              | 165             | 119           |
| 133.0 | 35.0    | 25 40.0              | 113 30.5              | CR           | 52 06 09           | 1457          | 140                 | 454                                  | 3.09                            | 50.0              | 19              | 21            |
| 133.0 | 40.0    | 25 30.0              | 113 50.0              | CR           | 52 06 09           | 1116          | 124                 | 563                                  | 2.20                            | 100.0             | 19              | 21            |
| 133.0 | 45.0    | 25 24.5              | 114 02.0              | CR           | 52 06 09           | 0846          | 151                 | 502                                  | 3.01                            | 100.0             | 76              | 37            |
| 137.0 | 23.0    | 25 35.0              | 112 18.8              | CR           | 52 06 08           | 0516          | 147                 | 480                                  | 3.06                            | 100.0             | 44              | 570           |
| 137.0 | 30.0    | 25 20.0              | 112 46.0              | CR           | 52 06 08           | 0319          | 36                  | 226                                  | 1.60                            | 50.0              | 105             | 644           |
| 137.0 | 35.0    | 25 08.0              | 113 09.0              | CR           | 52 06 08           | 0732          | 153                 | 414                                  | 3.69                            | 100.0             | 1051            | 469           |
| 137.0 | 40.0    | 25 00.0              | 113 23.0              | CR           | 52 06 08           | 1006          | 124                 | 528                                  | 2.35                            | 100.0             | 2               | 39            |
|       |         |                      |                       |              |                    | 1317          | 132                 | 508                                  | 2.59                            | 100.0             | 44              | 11            |

TABLE 1. (cont.)

| CalCOFI Cruise 5206 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 137.0               | 45.0    | 24 50.0              | 113 43.0              | CR           | 52 06 08                | 1541          | 139                 | 499                                  | 2.79                            | 100.0             | 14              | 149           |
| 137.0               | 50.0    | 24 40.0              | 114 01.5              | CR           | 52 06 08                | 1926          | 149                 | 504                                  | 2.96                            | 100.0             | 313             | 1922          |



TABLE 1. (cont.)

## CalCOFI Cruise 5207

| Line | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 40.0 | 38.0    | 41 45.5               | 124 26.5               | CR           | 52 07 14                | 1440          | 70                  | 298                                  | 2.35                            | 25.0              | 0               | 0             |
| 40.0 | 50.0    | 41 21.0               | 125 22.0               | CR           | 52 07 14                | 0741          | 148                 | 337                                  | 4.39                            | 50.0              | 4               | 6             |
| 40.0 | 60.0    | 41 03.0               | 126 09.0               | CR           | 52 07 14                | 0106          | 121                 | 452                                  | 2.68                            | 50.0              | 23              | 15            |
| 40.0 | 70.0    | 40 40.0               | 126 52.5               | CR           | 52 07 13                | 1906          | 135                 | 456                                  | 2.97                            | 50.0              | 35              | 7             |
| 40.0 | 80.0    | 40 23.0               | 127 40.0               | CR           | 52 07 13                | 1316          | 148                 | 465                                  | 3.19                            | 50.0              | 8               | 2             |
| 40.0 | 90.0    | 40 04.0               | 128 22.5               | CR           | 52 07 13                | 0741          | 139                 | 451                                  | 3.08                            | 50.0              | 8               | 3             |
| 43.0 | 42.0    | 41 04.0               | 124 22.0               | CR           | 52 07 14                | 1816          | 142                 | 442                                  | 3.22                            | 50.0              | 0               | 0             |
| 47.0 | 50.0    | 40 14.0               | 124 32.0               | CR           | 52 07 15                | 1201          | 135                 | 488                                  | 2.76                            | 25.0              | 6               | 8             |
| 47.0 | 55.0    | 40 04.2               | 124 54.5               | CR           | 52 07 15                | 0859          | 147                 | 437                                  | 3.37                            | 25.0              | 10              | 1             |
| 47.0 | 60.0    | 39 54.0               | 125 18.0               | CR           | 52 07 15                | 0556          | 149                 | 306                                  | 3.19                            | 50.0              | 14              | 11            |
| 50.0 | 47.0    | 39 45.0               | 123 56.0               | CR           | 52 07 15                | 1638          | 62                  | 455                                  | 1.37                            | 50.0              | 1               | 0             |
| 50.0 | 50.0    | 39 40.0               | 124 08.0               | CR           | 52 07 15                | 1836          | 126                 | 520                                  | 2.42                            | 25.0              | 3               | 2             |
| 50.0 | 55.0    | 39 30.8               | 124 28.4               | CR           | 52 07 15                | 2056          | 146                 | 474                                  | 3.08                            | 50.0              | 9               | 4             |
| 50.0 | 60.0    | 39 20.0               | 124 52.0               | CR           | 52 07 16                | 0656          | 131                 | 505                                  | 2.59                            | 100.0             | 26              | 4             |
| 50.0 | 70.0    | 39 00.0               | 125 36.0               | CR           | 52 07 16                | 0656          | 139                 | 474                                  | 2.93                            | 100.0             | 22              | 4             |
| 53.0 | 55.0    | 38 55.5               | 124 05.0               | CR           | 52 07 12                | 0541          | 137                 | 460                                  | 2.97                            | 50.0              | 3               | 8             |
| 53.0 | 60.0    | 38 45.8               | 124 26.7               | CR           | 52 07 12                | 0201          | 139                 | 479                                  | 2.89                            | 50.0              | 12              | 7             |
| 53.0 | 65.0    | 38 36.0               | 124 48.0               | CR           | 52 07 11                | 2316          | 139                 | 471                                  | 2.94                            | 50.0              | 18              | 1             |
| 57.0 | 51.0    | 38 30.0               | 123 22.0               | CR           | 52 07 11                | 0923          | 52                  | 353                                  | 1.49                            | 100.0             | 2               | 2             |
| 57.0 | 55.0    | 38 22.0               | 123 40.0               | CR           | 52 07 11                | 1206          | 127                 | 576                                  | 2.21                            | 50.0              | 16              | 2             |
| 57.0 | 60.0    | 38 12.7               | 124 01.5               | CR           | 52 07 11                | 1456          | 123                 | 534                                  | 2.30                            | 50.0              | 6               | 1             |
| 57.0 | 65.0    | 38 02.5               | 124 24.0               | CR           | 52 07 11                | 1801          | 137                 | 455                                  | 3.01                            | 50.0              | 5               | 0             |
| 60.0 | 57.0    | 37 47.5               | 123 15.0               | CR           | 52 07 18                | 0446          | 141                 | 440                                  | 3.21                            | 50.0              | 3               | 3             |
| 60.0 | 60.0    | 37 37.0               | 123 37.0               | CR           | 52 07 18                | 0349          | 143                 | 393                                  | 3.64                            | 50.0              | 15              | 11            |
| 60.0 | 70.0    | 37 15.0               | 124 21.0               | CR           | 52 07 17                | 2146          | 122                 | 524                                  | 2.32                            | 100.0             | 41              | 170           |
| 60.0 | 90.0    | 36 36.0               | 125 45.0               | CR           | 52 07 17                | 1036          | 143                 | 474                                  | 3.02                            | 50.0              | 9               | 7             |
| 63.0 | 52.0    | 37 19.0               | 122 36.0               | CR           | 52 07 19                | 1428          | 52                  | 250                                  | 2.07                            | 100.0             | 2               | 506           |
| 63.0 | 55.0    | 37 14.0               | 122 49.5               | CR           | 52 07 19                | 1620          | 144                 | 469                                  | 3.07                            | 100.0             | 8               | 53            |
| 63.0 | 60.0    | 37 01.5               | 123 14.8               | CR           | 52 07 19                | 1856          | 143                 | 391                                  | 3.67                            | 50.0              | 10              | 21            |
| 63.0 | 65.0    | 36 53.0               | 123 32.0               | CR           | 52 07 19                | 2206          | 128                 | 486                                  | 2.64                            | 50.0              | 6               | 3             |
| 67.0 | 55.0    | 36 40.0               | 122 15.5               | CR           | 52 07 20                | 0920          | 148                 | 344                                  | 4.30                            | 50.0              | 15              | 6             |
| 67.0 | 60.0    | 36 28.6               | 122 42.0               | CR           | 52 07 20                | 0546          | 126                 | 395                                  | 3.19                            | 100.0             | 4               | 21            |
| 67.0 | 65.0    | 36 18.0               | 123 06.0               | CR           | 52 07 20                | 0326          | 132                 | 474                                  | 2.79                            | 50.0              | 15              | 5             |
| 70.0 | 51.0    | 36 10.5               | 121 45.6               | CR           | 52 07 20                | 1636          | 135                 | 289                                  | 3.02                            | 50.0              | 2               | 27            |
| 70.0 | 60.0    | 35 53.0               | 122 23.0               | CR           | 52 07 20                | 2112          | 151                 | 441                                  | 3.43                            | 100.0             | 22              | 10            |
| 70.0 | 65.0    | 35 42.8               | 122 45.0               | CR           | 52 07 20                | 2346          | 133                 | 460                                  | 2.90                            | 25.0              | 1               | 0             |
| 70.0 | 70.0    | 35 33.0               | 123 05.0               | CR           | 52 07 21                | 0346          | 144                 | 369                                  | 3.89                            | 50.0              | 28              | 4             |
| 70.0 | 80.0    | 35 13.0               | 123 47.0               | CR           | 52 07 21                | 0906          | 130                 | 419                                  | 3.10                            | 100.0             | 24              | 4             |
| 70.0 | 90.0    | 34 53.0               | 124 30.0               | CR           | 52 07 21                | 1446          | 142                 | 438                                  | 3.24                            | 100.0             | 2               | 7             |
| 73.0 | 50.0    | 35 39.0               | 121 20.0               | CR           | 52 07 10                | 1348          | 41                  | 357                                  | 1.15                            | 50.0              | 4               | 2             |
| 73.0 | 55.0    | 35 29.7               | 121 42.3               | CR           | 52 07 10                | 1046          | 129                 | 519                                  | 2.49                            | 25.0              | 11              | 7             |
| 73.0 | 60.0    | 35 18.0               | 121 58.0               | CR           | 52 07 10                | 0806          | 126                 | 496                                  | 2.53                            | 100.0             | 114             | 299           |
| 77.0 | 50.0    | 35 00.5               | 120 54.0               | CR           | 52 07 09                | 1641          | 142                 | 524                                  | 2.70                            | 100.0             | 85              | 9             |
| 77.0 | 55.0    | 34 54.5               | 121 13.0               | CR           | 52 07 09                | 1956          | 143                 | 467                                  | 3.06                            | 25.0              | 8               | 0             |
| 77.0 | 60.0    | 34 44.2               | 121 33.8               | CR           | 52 07 09                | 2231          | 39                  | 407                                  | 3.41                            | 50.0              | 15              | 41            |

TABLE 1. (cont.)

## CalCOFI Cruise 5207

| Line | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 77.0 | 65.0    | 34 34.0               | 121 55.0               | CR           | 52 07 10                | 0201          | 145                 | 440                                  | 3.30                            | 50.0              | 49              | 127           |
| 80.0 | 51.0    | 34 25.0               | 120 32.5               | CR           | 52 07 23                | 1003          | 69                  | 355                                  | 1.95                            | 100.0             | 4               | 1             |
| 80.0 | 55.0    | 34 19.0               | 120 48.0               | CR           | 52 07 23                | 0812          | 139                 | 375                                  | 3.70                            | 100.0             | 5               | 2             |
| 80.0 | 60.0    | 34 03.0               | 121 05.0               | CR           | 52 07 23                | 0520          | 128                 | 367                                  | 3.48                            | 25.0              | 5               | 5             |
| 80.0 | 65.0    | 33 54.0               | 121 27.0               | CR           | 52 07 23                | 0219          | 138                 | 406                                  | 2.54                            | 25.0              | 3               | 8             |
| 80.0 | 70.0    | 33 43.0               | 121 52.0               | CR           | 52 07 22                | 2341          | 136                 | 467                                  | 2.92                            | 100.0             | 28              | 2             |
| 80.0 | 80.0    | 33 25.0               | 122 35.0               | CR           | 52 07 22                | 1656          | 141                 | 422                                  | 3.34                            | 100.0             | 9               | 13            |
| 80.0 | 90.0    | 33 09.0               | 123 14.0               | CR           | 52 07 22                | 1106          | 103                 | 553                                  | 1.87                            | 100.0             | 6               | 68            |
| 80.0 | 100.0   | 32 49.0               | 123 54.0               | CR           | 52 07 22                | 0546          | 138                 | 425                                  | 3.24                            | 100.0             | 8               | 15            |
| 85.0 | 38.0    | 34 01.5               | 119 02.5               | SB           | 52 07 12                | 0543          | 59                  | 245                                  | 2.41                            | 100.0             | 15              | 55            |
| 85.0 | 40.0    | 35 57.0               | 119 11.0               | SB           | 52 07 12                | 0411          | 118                 | 450                                  | 2.63                            | 100.0             | 18              | 49            |
| 85.0 | 45.0    | 33 46.4               | 119 30.7               | SB           | 52 07 12                | 0041          | 137                 | 469                                  | 2.92                            | 100.0             | 26              | 3             |
| 85.0 | 50.0    | 33 35.5               | 119 50.5               | SB           | 52 07 11                | 2221          | 125                 | 484                                  | 2.58                            | 25.0              | 3               | 1             |
| 85.0 | 55.0    | 33 25.0               | 120 13.0               | SB           | 52 07 11                | 1926          | 144                 | 447                                  | 3.21                            | 50.0              | 14              | 0             |
| 85.0 | 60.0    | 33 18.5               | 120 26.0               | SB           | 52 07 11                | 1741          | 132                 | 440                                  | 3.00                            | 25.0              | 2               | 27            |
| 85.0 | 70.0    | 33 55.6               | 121 11.1               | SB           | 52 07 11                | 1231          | 130                 | 476                                  | 2.72                            | 100.0             | 44              | 25            |
| 85.0 | 80.0    | 32 39.0               | 121 53.0               | SB           | 52 07 11                | 0821          | 120                 | 468                                  | 2.57                            | 100.0             | 38              | 51            |
| 85.0 | 90.0    | 32 17.0               | 122 37.0               | SB           | 52 07 11                | 0356          | 140                 | 431                                  | 3.24                            | 50.0              | 20              | 19            |
| 90.0 | 28.0    | 33 28.0               | 117 47.0               | SB           | 52 07 08                | 2141          | 133                 | 467                                  | 2.86                            | 50.0              | 29              | 8             |
| 90.0 | 30.0    | 33 24.5               | 117 56.4               | SB           | 52 07 08                | 2316          | 136                 | 445                                  | 3.07                            | 100.0             | 386             | 58            |
| 90.0 | 37.0    | 33 10.9               | 118 23.5               | SB           | 52 07 09                | 0330          | 134                 | 500                                  | 2.68                            | 100.0             | 115             | 68            |
| 90.0 | 45.0    | 32 54.5               | 118 56.0               | SB           | 52 07 09                | 1651          | 136                 | 440                                  | 3.08                            | 100.0             | 5               | 7             |
| 90.0 | 53.0    | 32 40.0               | 119 31.0               | SB           | 52 07 09                | 2116          | 135                 | 446                                  | 3.02                            | 50.0              | 51              | 31            |
| 90.0 | 60.0    | 32 25.0               | 119 57.5               | SB           | 52 07 10                | 0105          | 135                 | 499                                  | 2.71                            | 100.0             | 41              | 24            |
| 90.0 | 70.0    | 32 00.5               | 120 42.8               | SB           | 52 07 10                | 0706          | 124                 | 487                                  | 2.55                            | 100.0             | 16              | 48            |
| 90.0 | 80.0    | 31 47.0               | 121 19.0               | SB           | 52 07 10                | 1106          | 140                 | 444                                  | 3.15                            | 100.0             | 19              | 47            |
| 90.0 | 90.0    | 31 25.5               | 121 59.6               | SB           | 52 07 10                | 1606          | 131                 | 446                                  | 2.95                            | 100.0             | 9               | 8             |
| 90.0 | 100.0   | 31 06.8               | 122 39.0               | SB           | 52 07 10                | 2036          | 134                 | 468                                  | 2.86                            | 100.0             | 62              | 33            |
| 93.0 | 27.0    | 32 55.6               | 117 19.4               | SB           | 52 07 08                | 1708          | 67                  | 242                                  | 2.76                            | 100.0             | 5               | 60            |
| 93.0 | 30.0    | 32 48.0               | 117 31.0               | SB           | 52 07 08                | 1515          | 138                 | 496                                  | 2.78                            | 100.0             | 28              | 49            |
| 93.0 | 35.0    | 32 39.0               | 117 50.5               | SB           | 52 07 08                | 1146          | 143                 | 457                                  | 3.14                            | 100.0             | 11              | 15            |
| 93.0 | 40.0    | 32 30.0               | 118 13.0               | SB           | 52 07 08                | 0921          | 138                 | 483                                  | 2.86                            | 100.0             | 36              | 92            |
| 93.0 | 45.0    | 32 19.8               | 118 33.0               | SB           | 52 07 08                | 0611          | 118                 | 510                                  | 2.31                            | 50.0              | 54              | 64            |
| 93.0 | 50.0    | 32 10.0               | 118 53.2               | SB           | 52 07 08                | 0350          | 132                 | 510                                  | 2.58                            | 50.0              | 81              | 93            |
| 93.0 | 55.0    | 32 00.0               | 119 14.5               | SB           | 52 07 08                | 0030          | 134                 | 444                                  | 3.02                            | 50.0              | 154             | 226           |
| 93.0 | 60.0    | 31 50.0               | 119 34.0               | SB           | 52 07 07                | 2156          | 130                 | 472                                  | 2.75                            | 50.0              | 54              | 54            |
| 93.0 | 70.0    | 31 29.0               | 120 14.4               | SB           | 52 07 07                | 1716          | 141                 | 456                                  | 3.09                            | 100.0             | 80              | 78            |
| 93.0 | 80.0    | 31 10.0               | 120 54.0               | SB           | 52 07 07                | 1231          | 134                 | 474                                  | 2.82                            | 100.0             | 82              | 425           |
| 93.0 | 90.0    | 30 50.0               | 121 36.0               | SB           | 52 07 07                | 0756          | 137                 | 470                                  | 2.92                            | 100.0             | 48              | 43            |
| 97.0 | 30.0    | 32 15.4               | 117 08.8               | SB           | 52 07 05                | 1918          | 34                  | 176                                  | 1.95                            | 100.0             | 9               | 509           |
| 97.0 | 32.0    | 32 11.5               | 117 17.0               | SB           | 52 07 05                | 2136          | 145                 | 424                                  | 3.42                            | 100.0             | 21              | 18            |
| 97.0 | 40.0    | 31 55.5               | 117 49.0               | SB           | 52 07 06                | 0125          | 141                 | 461                                  | 3.05                            | 100.0             | 142             | 379           |
| 97.0 | 45.0    | 31 45.3               | 118 10.0               | SB           | 52 07 06                | 0401          | 131                 | 444                                  | 2.96                            | 50.0              | 192             | 789           |
| 97.0 | 50.0    | 31 35.0               | 118 30.2               | SB           | 52 07 06                | 0651          | 137                 | 417                                  | 3.27                            | 100.0             | 460             | 155           |
| 97.0 | 55.0    | 31 25.0               | 118 50.0               | SB           | 52 07 06                | 0906          | 130                 | 486                                  | 2.68                            | 100.0             | 140             | 340           |

TABLE 1. (cont.)

## CalCOFI Cruise 5207

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 97.0  | 60.0    | 31 15.0               | 119 12.0               | SB           | 52 07 06                | 1141          | 129                 | 495                                  | 2.62                            | 50.0              | 19              | 461           |
| 97.0  | 70.0    | 30 55.0               | 119 51.0               | SB           | 52 07 06                | 1631          | 146                 | 459                                  | 3.18                            | 100.0             | 73              | 24            |
| 97.0  | 80.0    | 30 35.0               | 120 30.0               | SB           | 52 07 06                | 2131          | 125                 | 547                                  | 2.28                            | 100.0             | 242             | 41            |
| 97.0  | 90.0    | 30 15.0               | 121 10.8               | SB           | 52 07 07                | 0235          | 138                 | 472                                  | 2.93                            | 100.0             | 73              | 89            |
| 100.0 | 29.0    | 31 42.5               | 116 43.4               | SB           | 52 07 05                | 1451          | 143                 | 447                                  | 3.20                            | 100.0             | 6               | 30            |
| 100.0 | 30.0    | 31 40.5               | 116 47.0               | SB           | 52 07 05                | 1328          | 134                 | 472                                  | 2.85                            | 100.0             | 5               | 44            |
| 100.0 | 35.0    | 31 30.0               | 117 06.0               | SB           | 52 07 05                | 0941          | 141                 | 450                                  | 3.13                            | 100.0             | 9               | 25            |
| 100.0 | 40.0    | 31 20.8               | 117 27.0               | SB           | 52 07 05                | 0651          | 140                 | 421                                  | 3.33                            | 100.0             | 66              | 19            |
| 100.0 | 45.0    | 31 11.0               | 117 46.8               | SB           | 52 07 05                | 0315          | 135                 | 494                                  | 2.74                            | 50.0              | 76              | 14            |
| 100.0 | 50.0    | 31 01.0               | 118 07.0               | SB           | 52 07 05                | 0111          | 137                 | 505                                  | 2.72                            | 100.0             | 89              | 225           |
| 100.0 | 55.0    | 30 15.0               | 118 27.0               | SB           | 52 07 04                | 2156          | 144                 | 435                                  | 3.32                            | 100.0             | 75              | 36            |
| 100.0 | 60.0    | 30 40.5               | 118 47.5               | SB           | 52 07 04                | 1942          | 138                 | 463                                  | 2.99                            | 100.0             | 23              | 93            |
| 100.0 | 70.0    | 30 20.3               | 119 27.3               | SB           | 52 07 04                | 1421          | 142                 | 440                                  | 3.22                            | 100.0             | 61              | 304           |
| 100.0 | 80.0    | 30 00.0               | 120 08.9               | SB           | 52 07 04                | 0831          | 129                 | 464                                  | 2.79                            | 100.0             | 47              | 144           |
| 100.0 | 90.0    | 29 40.5               | 120 47.0               | SB           | 52 07 03                | 0321          | 125                 | 463                                  | 2.69                            | 100.0             | 95              | 231           |
| 100.0 | 100.0   | 29 20.0               | 121 27.0               | SB           | 52 07 02                | 2221          | 140                 | 472                                  | 2.96                            | 100.0             | 81              | 184           |
| 105.0 | 32.0    | 30 45.2               | 116 20.7               | SB           | 52 07 02                | 0503          | 145                 | 248                                  | 1.80                            | 100.0             | 7               | 30            |
| 105.0 | 35.0    | 30 39.6               | 116 32.4               | SB           | 52 07 02                | 0736          | 129                 | 476                                  | 2.71                            | 100.0             | 72              | 91            |
| 105.0 | 40.0    | 30 29.0               | 116 55.0               | SB           | 52 07 02                | 1101          | 142                 | 447                                  | 3.18                            | 100.0             | 36              | 163           |
| 105.0 | 45.0    | 30 18.5               | 117 13.0               | SB           | 52 07 02                | 1336          | 145                 | 441                                  | 3.28                            | 100.0             | 22              | 60            |
| 105.0 | 50.0    | 30 10.2               | 117 31.1               | SB           | 52 07 02                | 1656          | 145                 | 432                                  | 3.35                            | 100.0             | 30              | 70            |
| 105.0 | 55.0    | 29 55.0               | 118 03.2               | SB           | 52 07 02                | 1956          | 123                 | 508                                  | 2.43                            | 100.0             | 78              | 52            |
| 105.0 | 60.0    | 29 50.0               | 118 16.0               | SB           | 52 07 02                | 2230          | 136                 | 490                                  | 2.78                            | 100.0             | 27              | 18            |
| 105.0 | 70.0    | 29 29.0               | 118 54.0               | SB           | 52 07 03                | 0340          | 138                 | 476                                  | 2.89                            | 100.0             | 152             | 186           |
| 105.0 | 80.0    | 29 02.0               | 119 30.0               | SB           | 52 07 03                | 0841          | 125                 | 519                                  | 2.41                            | 100.0             | 25              | 157           |
| 105.0 | 90.0    | 28 49.3               | 120 14.3               | SB           | 52 07 03                | 1446          | 142                 | 472                                  | 3.01                            | 100.0             | 35              | 397           |
| 110.0 | 33.0    | 29 51.0               | 115 52.2               | PT           | 52 07 09                | 0955          | 141                 | 606                                  | 2.33                            | 25.0              | 0               | 22            |
| 110.0 | 35.0    | 29 47.1               | 116 00.1               | PT           | 52 07 09                | 1211          | 128                 | 505                                  | 2.53                            | 100.0             | 5               | 9             |
| 110.0 | 40.0    | 29 37.0               | 116 20.5               | PT           | 52 07 09                | 1606          | 125                 | 502                                  | 2.49                            | 100.0             | 56              | 35            |
| 110.0 | 50.0    | 29 17.2               | 117 01.2               | PT           | 52 07 09                | 2316          | 139                 | 549                                  | 2.53                            | 100.0             | 21              | 7             |
| 110.0 | 60.0    | 28 57.1               | 117 42.6               | PT           | 52 07 10                | 0556          | 140                 | 477                                  | 2.93                            | 100.0             | 51              | 24            |
| 110.0 | 70.0    | 28 33.2               | 118 25.2               | PT           | 52 07 10                | 1247          | 124                 | 546                                  | 2.26                            | 100.0             | 55              | 95            |
| 110.0 | 80.0    | 28 14.4               | 119 00.8               | PT           | 52 07 10                | 1816          | 133                 | 526                                  | 2.53                            | 100.0             | 59              | 37            |
| 110.0 | 90.0    | 27 56.2               | 119 36.0               | PT           | 52 07 11                | 0026          | 125                 | 567                                  | 2.20                            | 100.0             | 173             | 760           |
| 113.0 | 30.0    | 29 15.6               | 115 10.1               | PT           | 52 07 12                | 1908          | 34                  | 205                                  | 1.68                            | 50.0              | 77              | 78            |
| 113.0 | 35.0    | 29 01.5               | 115 42.5               | PT           | 52 07 12                | 1335          | 131                 | 465                                  | 2.81                            | 100.0             | 13              | 6             |
| 113.0 | 40.0    | 28 46.2               | 115 15.1               | PT           | 52 07 12                | 0911          | 146                 | 474                                  | 3.08                            | 100.0             | 23              | 2             |
| 113.0 | 45.0    | 28 39.5               | 116 30.0               | PT           | 52 07 12                | 0421          | 138                 | 473                                  | 2.92                            | 100.0             | 47              | 5             |
| 113.0 | 50.0    | 28 32.2               | 116 45.4               | PT           | 52 07 12                | 0141          | 130                 | 495                                  | 2.62                            | 100.0             | 30              | 5             |
| 113.0 | 55.0    | 28 25.0               | 117 00.0               | PT           | 52 07 11                | 2201          | 135                 | 532                                  | 2.54                            | 100.0             | 40              | 38            |
| 113.0 | 60.0    | 28 19.4               | 117 16.7               | PT           | 52 07 11                | 1901          | 141                 | 530                                  | 2.65                            | 100.0             | 11              | 6             |
| 113.0 | 70.0    | 27 55.4               | 118 03.2               | PT           | 52 07 11                | 1206          | 141                 | 482                                  | 2.92                            | 100.0             | 50              | 42            |
| 117.0 | 26.0    | 28 55.8               | 114 41.3               | PT           | 52 07 12                | 0214          | 38                  | 218                                  | 1.76                            | 50.0              | 69              | 178           |
| 117.0 | 30.0    | 28 46.9               | 114 56.1               | PT           | 52 07 13                | 0214          | 37                  | 200                                  | 1.85                            | 50.0              | 24              | 647           |
| 117.0 | 35.0    | 28 39.0               | 114 08.8               | PT           | 52 07 13                | 0449          | 37                  | 225                                  | 1.65                            | 100.0             | 126             | 62            |

TABLE 1. (cont.)

| CalCOFI Cruise 5207 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 117.0               | 40.0    | 28 28.9              | 115 37.4              | PT           | 52 07 13                | 0905          | 142                 | 419                                  | 3.39                            | 100.0             | 21              | 30            |
| 117.0               | 45.0    | 28 19.0              | 115 56.5              | PT           | 52 07 13                | 1206          | 130                 | 530                                  | 2.46                            | 100.0             | 13              | 18            |
| 117.0               | 50.0    | 28 08.5              | 116 18.2              | PT           | 52 07 13                | 1610          | 165                 | 372                                  | 4.43                            | 100.0             | 12              | 5             |
| 117.0               | 55.0    | 27 58.0              | 116 38.5              | PT           | 52 07 13                | 1936          | 126                 | 296                                  | 4.26                            | 100.0             | 31              | 3             |
| 117.0               | 60.0    | 27 48.1              | 116 58.6              | PT           | 52 07 13                | 2325          | 149                 | 448                                  | 3.33                            | 100.0             | 14              | 1             |
| 117.0               | 70.0    | 27 27.8              | 117 38.9              | PT           | 52 07 14                | 0616          | 150                 | 465                                  | 3.24                            | 100.0             | 71              | 35            |
| 120.0               | 25.0    | 28 19.5              | 114 20.0              | PT           | 52 07 16                | 1409          | 38                  | 169                                  | 2.28                            | 100.0             | 241             | 245           |
| 120.0               | 30.0    | 28 11.3              | 114 37.5              | PT           | 52 07 16                | 1114          | 66                  | 359                                  | 1.84                            | 100.0             | 1158            | 685           |
| 120.0               | 35.0    | 28 03.2              | 114 54.0              | PT           | 52 07 16                | 0813          | 52                  | 328                                  | 1.59                            | 100.0             | 183             | 1088          |
| 120.0               | 37.0    | 27 57.8              | 115 09.2              | PT           | 52 07 16                | 0549          | 16                  | 185                                  | 0.88                            | 100.0             | 122             | 163           |
| 120.0               | 45.0    | 27 43.0              | 115 22.3              | PT           | 52 07 16                | 0256          | 127                 | 489                                  | 2.60                            | 50.0              | 31              | 3             |
| 120.0               | 50.0    | 27 33.9              | 115 41.4              | PT           | 52 07 15                | 2301          | 146                 | 455                                  | 3.21                            | 100.0             | 83              | 25            |
| 120.0               | 55.0    | 27 26.0              | 115 57.0              | PT           | 52 07 15                | 1921          | 122                 | 460                                  | 2.68                            | 100.0             | 50              | 69            |
| 120.0               | 60.0    | 27 13.3              | 116 23.2              | PT           | 52 07 15                | 1605          | 116                 | 549                                  | 2.11                            | 100.0             | 133             | 71            |
| 120.0               | 70.0    | 26 53.6              | 117 04.1              | PT           | 52 07 15                | 0831          | 140                 | 448                                  | 3.12                            | 100.0             | 101             | 44            |
| 120.0               | 80.0    | 26 33.0              | 117 45.1              | PT           | 52 07 15                | 0141          | 137                 | 419                                  | 3.27                            | 100.0             | 329             | 262           |
| 120.0               | 90.0    | 26 13.3              | 118 25.3              | PT           | 52 07 14                | 1716          | 127                 | 612                                  | 2.08                            | 100.0             | 48              | 822           |
| 123.0               | 37.0    | 27 23.6              | 114 41.3              | PT           | 52 07 17                | 0023          | 50                  | 378                                  | 1.31                            | 13.0              | 3               | 4             |
| 123.0               | 40.0    | 27 17.5              | 114 51.5              | PT           | 52 07 17                | 0341          | 132                 | 479                                  | 2.75                            | 50.0              | 8               | 6             |
| 123.0               | 45.0    | 27 07.5              | 115 11.0              | PT           | 52 07 17                | 0536          | 128                 | 518                                  | 2.47                            | 100.0             | 9               | 6             |
| 123.0               | 50.0    | 26 58.7              | 115 28.8              | PT           | 52 07 17                | 0916          | 138                 | 448                                  | 3.08                            | 100.0             | 78              | 7009          |
| 123.0               | 60.0    | 26 38.8              | 116 05.2              | PT           | 52 07 17                | 2316          | 141                 | 459                                  | 3.07                            | 100.0             | 18              | 38            |
| 127.0               | 34.0    | 26 54.3              | 114 49.5              | PT           | 52 07 18                | 1507          | 51                  | 352                                  | 1.46                            | 50.0              | 0               | 7             |
| 127.0               | 40.0    | 26 40.3              | 114 31.3              | PT           | 52 07 18                | 1041          | 148                 | 453                                  | 3.26                            | 100.0             | 14              | 22            |
| 127.0               | 45.0    | 26 31.0              | 114 49.5              | PT           | 52 07 18                | 0641          | 135                 | 470                                  | 2.88                            | 100.0             | 35              | 15            |
| 127.0               | 50.0    | 26 20.9              | 115 07.6              | PT           | 52 07 18                | 0436          | 142                 | 426                                  | 3.33                            | 100.0             | 29              | 81            |
| 127.0               | 60.0    | 26 03.2              | 115 45.8              | PT           | 52 07 17                | 2111          | 138                 | 446                                  | 3.09                            | 100.0             | 341             | 13            |
| 130.0               | 30.0    | 26 29.0              | 113 29.0              | PT           | 52 07 19                | 0229          | 27                  | 256                                  | 1.06                            | 100.0             | 15              | 856           |
| 130.0               | 35.0    | 26 19.0              | 113 48.3              | PT           | 52 07 19                | 0841          | 134                 | 504                                  | 2.67                            | 100.0             | 2               | 36            |
| 130.0               | 40.0    | 26 08.7              | 114 08.8              | PT           | 52 07 19                | 1256          | 138                 | 474                                  | 2.90                            | 100.0             | 58              | 61            |
| 130.0               | 45.0    | 24 58.5              | 114 28.0              | PT           | 52 07 19                | 1541          | 127                 | 515                                  | 2.47                            | 100.0             | 64              | 80            |
| 130.0               | 50.0    | 24 48.6              | 114 47.7              | PT           | 52 07 19                | 1946          | 135                 | 487                                  | 2.77                            | 100.0             | 346             | 54            |
| 130.0               | 60.0    | 24 28.1              | 115 26.0              | PT           | 52 07 20                | 0226          | 134                 | 482                                  | 2.79                            | 100.0             | 91              | 269           |
| 133.0               | 30.0    | 25 45.0              | 113 21.8              | PT           | 52 07 20                | 2321          | 135                 | 461                                  | 2.93                            | 100.0             | 26              | 62            |
| 133.0               | 35.0    | 25 37.2              | 113 38.0              | PT           | 52 07 20                | 1941          | 122                 | 531                                  | 2.29                            | 100.0             | 6               | 5             |
| 133.0               | 40.0    | 25 29.0              | 113 54.0              | PT           | 52 07 20                | 1656          | 114                 | 540                                  | 2.10                            | 100.0             | 31              | 3             |
| 133.0               | 45.0    | 25 21.0              | 114 10.5              | PT           | 52 07 20                | 1311          | 126                 | 513                                  | 2.46                            | 100.0             | 35              | 111           |
| 133.0               | 50.0    | 25 13.2              | 114 26.5              | PT           | 52 07 20                | 1010          | 141                 | 465                                  | 3.03                            | 100.0             | 129             | 117           |
| 137.0               | 23.0    | 25 34.2              | 112 17.8              | PT           | 52 07 22                | 0324          | 30                  | 333                                  | 0.90                            | 13.0              | 35              | 11            |
| 137.0               | 30.0    | 25 20.0              | 112 45.5              | PT           | 52 07 22                | 0744          | 41                  | 294                                  | 1.38                            | 100.0             | 41              | 97            |
| 137.0               | 35.0    | 25 10.0              | 113 04.2              | PT           | 52 07 22                | 1016          | 117                 | 523                                  | 2.23                            | 100.0             | 14              | 8             |
| 137.0               | 40.0    | 25 00.0              | 113 23.0              | PT           | 52 07 22                | 1351          | 120                 | 512                                  | 2.34                            | 100.0             | 5               | 5             |
| 137.0               | 45.0    | 24 50.8              | 113 40.1              | PT           | 52 07 22                | 1631          | 109                 | 535                                  | 2.05                            | 100.0             | 13              | 15            |
| 137.0               | 50.0    | 24 39.6              | 114 01.0              | PT           | 52 07 22                | 2021          | 126                 | 506                                  | 2.49                            | 100.0             | 115             | 176           |

TABLE 1. (cont.)

## CalCOFI Cruise 5208

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 60.0  | 55.0    | 37 46.5              | 123 11.5              | BD           | 52 08 19                | 0753          | 74                  | 247                                  | 2.99                            | 100.0             | 1               | 191           |
| 63.0  | 52.0    | 37 19.0              | 122 36.2              | BD           | 52 08 18                | 1858          | 56                  | 218                                  | 2.59                            | 100.0             | 0               | 135           |
| 63.0  | 55.0    | 37 14.0              | 122 49.5              | BD           | 52 08 18                | 2056          | 140                 | 426                                  | 3.29                            | 100.0             | 10              | 8             |
| 67.0  | 50.0    | 36 49.0              | 122 04.6              | BD           | 52 08 18                | 1228          | 57                  | 197                                  | 2.92                            | 100.0             | 1               | 110           |
| 67.0  | 55.0    | 36 39.0              | 122 26.0              | BD           | 52 08 18                | 0841          | 142                 | 460                                  | 3.09                            | 100.0             | 29              | 22            |
| 67.0  | 65.0    | 36 19.0              | 123 09.0              | BD           | 52 08 18                | 0106          | 146                 | 443                                  | 3.29                            | 100.0             | 27              | 252           |
| 70.0  | 51.0    | 36 10.4              | 121 45.7              | BD           | 52 08 16                | 0131          | 140                 | 509                                  | 2.74                            | 25.0              | 3               | 2             |
| 70.0  | 60.0    | 35 53.0              | 122 23.0              | BD           | 52 08 16                | 2216          | 142                 | 480                                  | 2.96                            | 50.0              | 15              | 11            |
| 70.0  | 70.0    | 35 33.0              | 123 06.0              | BD           | 52 08 17                | 0456          | 142                 | 452                                  | 3.15                            | 50.0              | 17              | 12            |
| 70.0  | 80.0    | 35 13.0              | 123 48.0              | BD           | 52 08 17                | 1026          | 132                 | 504                                  | 2.62                            | 100.0             | 6               | 10            |
| 73.0  | 50.0    | 35 37.0              | 121 16.6              | BD           | 52 08 15                | 1118          | 56                  | 217                                  | 2.60                            | 100.0             | 2               | 6             |
| 73.0  | 60.0    | 35 18.0              | 121 58.4              | BD           | 52 08 15                | 1656          | 138                 | 484                                  | 2.85                            | 13.0              | 1               | 10            |
| 77.0  | 50.0    | 35 04.4              | 120 52.0              | BD           | 52 08 15                | 0543          | 69                  | 266                                  | 2.59                            | 100.0             | 2               | 3             |
| 77.0  | 55.0    | 34 54.5              | 121 13.0              | BD           | 52 08 15                | 0121          | 142                 | 458                                  | 3.10                            | 100.0             | 16              | 9             |
| 77.0  | 65.0    | 34 34.0              | 121 55.0              | BD           | 52 08 14                | 1601          | 143                 | 457                                  | 3.14                            | 13.0              | 2               | 0             |
| 80.0  | 51.0    | 34 26.5              | 120 32.5              | BD           | 52 08 12                | 0743          | 58                  | 198                                  | 2.91                            | 100.0             | 0               | 0             |
| 80.0  | 60.0    | 34 19.0              | 120 48.0              | BD           | 52 08 12                | 1010          | 139                 | 483                                  | 2.88                            | 50.0              | 5               | 11            |
| 80.0  | 70.0    | 34 09.0              | 121 09.0              | BD           | 52 08 12                | 1401          | 141                 | 430                                  | 3.29                            | 50.0              | 13              | 16            |
| 80.0  | 80.0    | 33 49.0              | 121 51.0              | BD           | 52 08 12                | 2216          | 142                 | 480                                  | 2.95                            | 100.0             | 10              | 17            |
| 80.0  | 90.0    | 33 29.0              | 122 32.0              | BD           | 52 08 13                | 0451          | 139                 | 489                                  | 2.85                            | 100.0             | 57              | 13            |
| 80.0  | 100.0   | 32 49.0              | 123 12.0              | BD           | 52 08 13                | 1446          | 143                 | 468                                  | 3.06                            | 100.0             | 13              | 26            |
| 85.0  | 38.0    | 34 01.0              | 123 54.0              | BD           | 52 08 13                | 1925          | 138                 | 514                                  | 2.69                            | 100.0             | 89              | 33            |
| 85.0  | 40.0    | 33 57.0              | 119 02.3              | BD           | 52 08 11                | 2108          | 58                  | 206                                  | 2.82                            | 100.0             | 40              | 5             |
| 85.0  | 50.0    | 33 37.0              | 119 52.0              | BD           | 52 08 11                | 1756          | 133                 | 506                                  | 2.62                            | 100.0             | 11              | 0             |
| 85.0  | 60.0    | 33 13.0              | 120 33.0              | BD           | 52 08 11                | 1140          | 143                 | 462                                  | 3.10                            | 100.0             | 7               | 1             |
| 90.0  | 28.0    | 33 28.5              | 117 46.7              | BD           | 52 08 09                | 0326          | 142                 | 498                                  | 2.84                            | 25.0              | 7               | 18            |
| 90.0  | 30.0    | 33 24.5              | 117 55.0              | BD           | 52 08 09                | 0908          | 68                  | 282                                  | 2.40                            | 100.0             | 37              | 502           |
| 90.0  | 37.0    | 33 11.0              | 118 23.5              | BD           | 52 08 09                | 1606          | 142                 | 502                                  | 2.84                            | 100.0             | 38              | 35            |
| 90.0  | 45.0    | 32 54.5              | 118 56.0              | BD           | 52 08 09                | 2146          | 138                 | 505                                  | 2.73                            | 100.0             | 14              | 71            |
| 90.0  | 53.0    | 32 38.5              | 119 29.0              | BD           | 52 08 09                | 0301          | 142                 | 492                                  | 2.90                            | 25.0              | 3               | 0             |
| 90.0  | 60.0    | 32 25.0              | 119 57.5              | BD           | 52 08 10                | 0826          | 142                 | 499                                  | 2.89                            | 50.0              | 12              | 17            |
| 90.0  | 70.0    | 32 04.5              | 120 39.0              | BD           | 52 08 10                | 1456          | 141                 | 515                                  | 2.73                            | 100.0             | 16              | 15            |
| 93.0  | 27.0    | 32 56.0              | 117 19.2              | BD           | 52 08 09                | 0311          | 136                 | 533                                  | 2.56                            | 100.0             | 8               | 10            |
| 93.0  | 30.0    | 32 50.0              | 117 31.5              | BD           | 52 08 09                | 0001          | 129                 | 547                                  | 2.35                            | 100.0             | 75              | 67            |
| 93.0  | 40.0    | 32 30.0              | 118 12.5              | BD           | 52 08 08                | 1756          | 138                 | 531                                  | 2.60                            | 100.0             | 35              | 3             |
| 93.0  | 50.0    | 32 10.0              | 118 53.5              | BD           | 52 08 08                | 1156          | 142                 | 518                                  | 2.75                            | 100.0             | 24              | 7             |
| 97.0  | 30.0    | 32 15.4              | 117 08.8              | BD           | 52 08 07                | 1509          | 42                  | 249                                  | 1.69                            | 50.0              | 6               | 203           |
| 97.0  | 32.0    | 32 11.5              | 117 17.0              | BD           | 52 08 07                | 1726          | 133                 | 527                                  | 2.53                            | 100.0             | 39              | 270           |
| 97.0  | 40.0    | 31 55.5              | 117 50.0              | BD           | 52 08 07                | 2311          | 144                 | 504                                  | 2.86                            | 50.0              | 158             | 5             |
| 97.0  | 50.0    | 31 35.5              | 118 30.5              | BD           | 52 08 08                | 0601          | 144                 | 510                                  | 2.76                            | 100.0             | 95              | 3             |
| 100.0 | 29.0    | 31 42.0              | 116 43.5              | CR           | 52 08 08                | 1856          | 71                  | 314                                  | 2.27                            | 100.0             | 6               | 97            |
| 100.0 | 30.0    | 31 40.5              | 116 46.5              | CR           | 52 08 08                | 2046          | 131                 | 479                                  | 2.72                            | 100.0             | 10              | 246           |
| 100.0 | 40.0    | 31 21.0              | 117 27.0              | CR           | 52 08 09                | 0221          | 123                 | 530                                  | 2.32                            | 100.0             | 69              | 329           |
| 100.0 | 50.0    | 31 00.0              | 118 07.0              | CR           | 52 08 09                | 0718          | 118                 | 472                                  | 2.51                            | 100.0             | 46              | 40            |
|       |         |                      |                       |              |                         |               |                     |                                      |                                 |                   | 24              |               |

TABLE 1. (cont.)

## CalCOFI Cruise 5208

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 100.0 | 60.0    | 30 37.0              | 118 48.5              | CR           | 52 08 09                | 1226          | 141                 | 453                                  | 3.11                            | 100.0             | 52              | 171           |
| 100.0 | 70.0    | 30 18.0              | 119 26.0              | CR           | 52 08 09                | 1707          | 148                 | 367                                  | 4.04                            | 100.0             | 35              | 52            |
| 100.0 | 80.0    | 30 01.0              | 120 07.0              | CR           | 52 08 09                | 2256          | 108                 | 492                                  | 2.20                            | 100.0             | 80              | 209           |
| 103.0 | 30.0    | 31 05.0              | 116 25.0              | CR           | 52 08 11                | 0118          | 58                  | 109                                  | 3.07                            | 50.0              | 16              | 31            |
| 103.0 | 35.0    | 30 53.0              | 116 42.2              | CR           | 52 08 10                | 2251          | 131                 | 471                                  | 2.74                            | 100.0             | 50              | 5             |
| 103.0 | 40.0    | 30 43.0              | 117 04.0              | CR           | 52 08 10                | 1932          | 131                 | 479                                  | 2.96                            | 50.0              | 39              | 6             |
| 107.0 | 32.0    | 30 25.5              | 116 11.0              | CR           | 52 08 11                | 0621          | 130                 | 438                                  | 2.96                            | 100.0             | 35              | 76            |
| 107.0 | 35.0    | 30 20.0              | 116 20.0              | CR           | 52 08 11                | 0911          | 131                 | 463                                  | 2.84                            | 100.0             | 15              | 5             |
| 107.0 | 40.0    | 30 10.5              | 116 43.5              | CR           | 52 08 11                | 1231          | 143                 | 367                                  | 3.89                            | 100.0             | 14              | 11            |
| 110.0 | 33.0    | 29 50.5              | 115 52.0              | CR           | 52 08 12                | 1543          | 36                  | 160                                  | 2.26                            | 100.0             | 15              | 289           |
| 110.0 | 35.0    | 29 46.5              | 116 00.0              | CR           | 52 08 12                | 1356          | 129                 | 412                                  | 3.13                            | 100.0             | 5               | 147           |
| 110.0 | 40.0    | 29 36.5              | 116 19.5              | CR           | 52 08 12                | 1011          | 143                 | 413                                  | 3.46                            | 100.0             | 8               | 2             |
| 110.0 | 50.0    | 29 17.0              | 116 59.0              | CR           | 52 08 12                | 0506          | 137                 | 442                                  | 3.10                            | 100.0             | 13              | 7             |
| 110.0 | 60.0    | 28 56.0              | 117 39.0              | CR           | 52 08 11                | 2341          | 138                 | 382                                  | 3.61                            | 100.0             | 29              | 50            |
| 113.0 | 30.0    | 29 22.5              | 115 18.0              | CR           | 52 08 12                | 2014          | 39                  | 123                                  | 3.14                            | 50.0              | 29              | 151           |
| 113.0 | 30.0    | 29 22.3              | 115 17.3              | SB           | 52 08 12                | 0550          | 34                  | 162                                  | 2.57                            | 100.0             | 3               | 223           |
| 113.0 | 35.0    | 29 12.0              | 115 39.0              | SB           | 52 08 12                | 0837          | 125                 | 487                                  | 2.09                            | 100.0             | 17              | 4             |
| 113.0 | 40.0    | 29 02.0              | 115 58.0              | CR           | 52 08 13                | 0141          | 143                 | 389                                  | 3.67                            | 100.0             | 14              | 3             |
| 115.0 | 26.0    | 29 11.2              | 114 55.8              | SB           | 52 08 12                | 1755          | 30                  | 262                                  | 2.08                            | 100.0             | 371             | 232           |
| 115.0 | 30.0    | 29 05.2              | 115 07.7              | SB           | 52 08 12                | 1444          | 65                  | 293                                  | 2.48                            | 50.0              | 18              | 239           |
| 115.0 | 35.0    | 28 55.0              | 115 27.6              | SB           | 52 08 12                | 1131          | 130                 | 493                                  | 2.63                            | 100.0             | 18              | 4             |
| 117.0 | 26.0    | 28 56.0              | 114 41.0              | SB           | 52 08 12                | 2020          | 40                  | 176                                  | 2.24                            | 50.0              | 140             | 124           |
| 117.0 | 30.0    | 28 47.0              | 114 55.5              | CR           | 52 08 13                | 1048          | 54                  | 196                                  | 2.75                            | 100.0             | 187             | 247           |
| 117.0 | 35.0    | 28 38.0              | 115 16.0              | CR           | 52 08 13                | 0254          | 62                  | 246                                  | 2.44                            | 100.0             | 48              | 430           |
| 117.0 | 40.0    | 28 28.0              | 115 35.5              | CR           | 52 08 13                | 0602          | 143                 | 264                                  | 2.41                            | 100.0             | 134             | 173           |
| 117.0 | 40.0    | 28 28.0              | 115 35.0              | SB           | 52 08 14                | 0740          | 126                 | 413                                  | 2.34                            | 100.0             | 43              | 89            |
| 118.0 | 33.0    | 28 27.0              | 115 05.0              | SB           | 52 08 17                | 0804          | 78                  | 458                                  | 3.46                            | 100.0             | 34              | 117           |
| 118.0 | 35.0    | 28 24.6              | 115 08.1              | SB           | 52 08 14                | 0434          | 68                  | 237                                  | 3.27                            | 100.0             | 16              | 29            |
| 118.5 | 25.0    | 28 41.0              | 114 26.7              | SB           | 52 08 13                | 1410          | 32                  | 228                                  | 2.98                            | 100.0             | 7               | 23            |
| 118.5 | 30.0    | 28 29.0              | 114 42.0              | SB           | 52 08 13                | 1125          | 65                  | 250                                  | 2.22                            | 100.0             | 88              | 65            |
| 118.5 | 35.0    | 28 20.5              | 115 04.0              | SB           | 52 08 13                | 0809          | 68                  | 225                                  | 2.62                            | 50.0              | 239             | 231           |
| 119.0 | 33.0    | 28 17.0              | 114 53.9              | SB           | 52 08 17                | 0605          | 56                  | 258                                  | 3.02                            | 100.0             | 105             | 312           |
| 119.0 | 42.0    | 28 00.0              | 115 29.2              | SB           | 52 08 14                | 1133          | 53                  | 272                                  | 2.19                            | 25.0              | 147             | 540           |
| 120.0 | 25.0    | 28 23.0              | 114 15.0              | CR           | 52 08 13                | 1814          | 47                  | 121                                  | 1.96                            | 100.0             | 230             | 443           |
| 120.0 | 30.0    | 28 13.0              | 114 14.9              | SB           | 52 08 13                | 1816          | 34                  | 133                                  | 3.91                            | 100.0             | 257             | 443           |
| 120.0 | 35.0    | 28 02.3              | 114 54.2              | SB           | 52 08 14                | 0127          | 58                  | 159                                  | 2.54                            | 100.0             | 64              | 316           |
| 120.0 | 43.0    | 27 49.4              | 115 27.0              | SB           | 52 08 17                | 0206          | 32                  | 136                                  | 2.22                            | 100.0             | 396             | 472           |
| 120.0 | 45.0    | 27 43.0              | 115 33.0              | CR           | 52 08 14                | 2326          | 65                  | 225                                  | 1.82                            | 50.0              | 251             | 467           |
| 120.0 | 50.0    | 27 33.5              | 115 56.0              | CR           | 52 08 15                | 0231          | 137                 | 464                                  | 2.36                            | 100.0             | 121             | 324           |
| 120.0 | 60.0    | 27 16.0              | 116 31.5              | CR           | 52 08 15                | 0732          | 121                 | 461                                  | 2.53                            | 100.0             | 46              | 287           |
| 120.0 | 70.0    | 26 54.0              | 117 10.0              | CR           | 52 08 15                | 1126          | 147                 | 423                                  | 3.71                            | 100.0             | 36              | 156           |
|       |         |                      |                       |              |                         |               |                     |                                      | 2.96                            | 100.0             | 53              | 27            |
|       |         |                      |                       |              |                         |               |                     |                                      | 2.64                            | 100.0             | 21              | 9             |
|       |         |                      |                       |              |                         |               |                     |                                      | 3.48                            | 100.0             | 44              | 152           |

TABLE 1. (cont.)

## CalCOFI Cruise 5208

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 120.0 | 80.0    | 26 33.0               | 117 48.0               | CR           | 52 08 15                | 1626          | 143                 | 426                                  | 3.36                            | 25.0              | 3               | 4             |
| 120.0 | 90.0    | 26 12.5               | 118 27.0               | CR           | 52 08 15                | 2041          | 147                 | 430                                  | 3.41                            | 100.0             | 123             | 22            |
| 121.0 | 30.0    | 28 01.0               | 114 27.0               | SB           | 52 08 16                | 2256          | 25                  | 129                                  | 1.96                            | 100.0             | 285             | 460           |
| 121.0 | 30.0    | 28 10.0               | 114 28.0               | SB           | 52 08 13                | 2222          | 37                  | 122                                  | 3.05                            | 50.0              | 285             | 460           |
| 121.0 | 34.0    | 27 54.7               | 114 44.7               | SB           | 52 08 17                | 0035          | 32                  | 160                                  | 2.01                            | 100.0             | 36              | 317           |
| 121.0 | 41.0    | 27 40.5               | 115 10.5               | SB           | 52 08 14                | 1600          | 29                  | 156                                  | 1.84                            | 100.0             | 10              | 23            |
| 121.3 | 26.0    | 28 09.6               | 114 11.3               | SB           | 52 08 16                | 2110          | 8                   | 39                                   | 2.04                            | 100.0             | 12              | 164           |
| 121.5 | 28.0    | 28 02.6               | 114 16.1               | CR           | 52 08 16                | 1022          | 12                  | 79                                   | 1.53                            | 100.0             | 27              | 1102          |
| 123.0 | 37.0    | 27 24.0               | 114 40.0               | CR           | 52 08 16                | 1744          | 38                  | 164                                  | 2.34                            | 100.0             | 2               | 46            |
| 123.0 | 40.0    | 27 18.0               | 114 51.5               | CR           | 52 08 16                | 1556          | 138                 | 422                                  | 3.27                            | 100.0             | 9               | 120           |
| 123.0 | 50.0    | 26 58.0               | 115 31.0               | CR           | 52 08 16                | 1111          | 135                 | 449                                  | 3.00                            | 100.0             | 23              | 28            |
| 127.0 | 34.0    | 26 55.0               | 114 06.0               | CR           | 52 08 16                | 2244          | 35                  | 157                                  | 2.23                            | 100.0             | 55              | 1240          |
| 127.0 | 40.0    | 26 43.5               | 114 29.5               | CR           | 52 08 17                | 0156          | 131                 | 458                                  | 2.85                            | 100.0             | 14              | 28            |
| 127.0 | 50.0    | 26 23.0               | 115 08.0               | CR           | 52 08 17                | 0646          | 133                 | 447                                  | 2.98                            | 100.0             | 18              | 16            |
| 130.0 | 30.0    | 26 22.0               | 113 31.0               | CR           | 52 08 18                | 0603          | 48                  | 188                                  | 2.56                            | 50.0              | 19              | 934           |
| 130.0 | 35.0    | 26 15.0               | 113 48.0               | CR           | 52 08 18                | 0321          | 134                 | 415                                  | 3.22                            | 100.0             | 25              | 61            |
| 130.0 | 40.0    | 26 07.0               | 114 06.0               | CR           | 52 08 18                | 0001          | 138                 | 480                                  | 2.87                            | 100.0             | 102             | 26            |
| 130.0 | 50.0    | 25 49.0               | 114 46.0               | CR           | 52 08 17                | 1756          | 140                 | 433                                  | 3.24                            | 100.0             | 32              | 28            |
| 130.0 | 60.0    | 25 28.5               | 115 24.0               | CR           | 52 08 17                | 1326          | 133                 | 475                                  | 2.81                            | 100.0             | 12              | 75            |
| 133.0 | 25.0    | 26 04.5               | 112 48.0               | CR           | 52 08 18                | 1028          | 32                  | 196                                  | 1.65                            | 50.0              | 72              | 16            |
| 133.0 | 30.0    | 25 54.5               | 113 07.5               | CR           | 52 08 18                | 1301          | 138                 | 436                                  | 3.15                            | 25.0              | 1               | 12            |
| 137.0 | 23.0    | 25 34.0               | 112 18.5               | CR           | 52 08 18                | 2018          | 59                  | 156                                  | 3.80                            | 50.0              | 95              | 214           |
| 137.0 | 30.0    | 25 20.0               | 112 45.5               | CR           | 52 08 18                | 1731          | 148                 | 399                                  | 3.70                            | 25.0              | 2               | 14            |

TABLE 1. (cont.)

## CalCOFI Cruise 5209

| Line | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 60.0 | 55.0    | 37 48.8               | 123 14.4               | PT           | 52 09 17                | 0218          | 63                  | 391                                  | 1.62                            | 50.0              | 3               | 2             |
| 60.0 | 60.0    | 37 38.0               | 123 36.5               | PT           | 52 09 17                | 0815          | 137                 | 550                                  | 2.49                            | 100.0             | 2               | 18            |
| 60.0 | 70.0    | 37 19.8               | 124 20.0               | PT           | 52 09 17                | 1516          | 112                 | 571                                  | 1.97                            | 100.0             | 4               | 45            |
| 60.0 | 80.0    | 37 01.5               | 125 01.0               | PT           | 52 09 17                | 2116          | 104                 | 641                                  | 1.62                            | 50.0              | 12              | 9             |
| 60.0 | 90.0    | 36 37.5               | 125 47.0               | PT           | 52 09 18                | 0446          | 131                 | 445                                  | 2.96                            | 100.0             | 9               | 2             |
| 60.0 | 100.0   | 36 16.5               | 126 29.5               | PT           | 52 09 18                | 1026          | 128                 | 576                                  | 2.22                            | 100.0             | 4               | 5             |
| 60.0 | 110.0   | 35 55.5               | 126 11.0               | PT           | 52 09 18                | 1756          | 135                 | 537                                  | 2.51                            | 100.0             | 11              | 17            |
| 63.0 | 52.0    | 37 18.0               | 122 35.4               | PT           | 52 09 15                | 0723          | 31                  | 281                                  | 1.10                            | 100.0             | 11              | 747           |
| 63.0 | 55.0    | 37 16.7               | 122 48.8               | PT           | 52 09 15                | 0916          | 77                  | 510                                  | 1.51                            | 100.0             | 12              | 466           |
| 67.0 | 50.0    | 36 49.0               | 122 04.5               | PT           | 52 09 15                | 0048          | 67                  | 425                                  | 1.57                            | 100.0             | 13              | 357           |
| 67.0 | 55.0    | 36 39.0               | 122 25.5               | PT           | 52 09 14                | 2146          | 118                 | 527                                  | 2.23                            | 50.0              | 13              | 6             |
| 67.0 | 65.0    | 36 19.0               | 123 09.0               | PT           | 52 09 14                | 1541          | 107                 | 512                                  | 2.09                            | 6.0               | 3               | 1             |
| 70.0 | 51.0    | 36 10.5               | 121 45.6               | PT           | 52 09 13                | 1107          | 56                  | 533                                  | 1.04                            | 100.0             | 0               | 0             |
| 70.0 | 60.0    | 35 55.0               | 122 25.0               | PT           | 52 09 13                | 1555          | 128                 | 531                                  | 2.41                            | 50.0              | 3               | 5             |
| 70.0 | 70.0    | 35 38.5               | 123 06.0               | PT           | 52 09 13                | 2306          | 125                 | 521                                  | 2.40                            | 100.0             | 13              | 9             |
| 70.0 | 80.0    | 35 14.8               | 123 47.5               | PT           | 52 09 14                | 0436          | 114                 | 435                                  | 2.61                            | 100.0             | 10              | 2             |
| 73.0 | 50.0    | 35 36.8               | 121 16.5               | PT           | 52 09 12                | 1808          | 43                  | 342                                  | 1.27                            | 25.0              | 0               | 0             |
| 73.0 | 60.0    | 35 10.8               | 122 00.5               | PT           | 52 09 13                | 0011          | 120                 | 511                                  | 2.35                            | 13.0              | 1               | 2             |
| 77.0 | 50.0    | 35 04.4               | 120 51.8               | PT           | 52 09 12                | 1138          | 63                  | 480                                  | 1.32                            | 100.0             | 0               | 1             |
| 77.0 | 55.0    | 34 46.5               | 121 05.0               | PT           | 52 09 12                | 0611          | 133                 | 424                                  | 3.15                            | 13.0              | 0               | 0             |
| 77.0 | 65.0    | 34 30.5               | 121 52.5               | PT           | 52 09 11                | 2256          | 153                 | 471                                  | 3.25                            | 100.0             | 48              | 0             |
| 80.0 | 51.0    | 34 26.0               | 120 32.8               | PT           | 52 09 09                | 1728          | 41                  | 328                                  | 1.26                            | 100.0             | 1               | 24            |
| 80.0 | 55.0    | 34 18.0               | 120 50.0               | PT           | 52 09 09                | 1936          | 142                 | 462                                  | 3.07                            | 100.0             | 18              | 3             |
| 80.0 | 60.0    | 34 07.0               | 121 12.0               | PT           | 52 09 10                | 0036          | 155                 | 435                                  | 3.56                            | 100.0             | 34              | 4             |
| 80.0 | 70.0    | 33 45.1               | 121 55.5               | PT           | 52 09 10                | 0726          | 147                 | 516                                  | 2.85                            | 100.0             | 6               | 7             |
| 80.0 | 80.0    | 33 23.9               | 122 37.5               | PT           | 52 09 10                | 1406          | 148                 | 486                                  | 3.05                            | 100.0             | 7               | 6             |
| 80.0 | 90.0    | 33 09.0               | 123 13.0               | PT           | 52 09 10                | 1956          | 145                 | 476                                  | 3.04                            | 100.0             | 46              | 4             |
| 80.0 | 100.0   | 32 49.2               | 123 51.5               | PT           | 52 09 11                | 0241          | 145                 | 470                                  | 3.09                            | 100.0             | 23              | 21            |
| 85.0 | 38.0    | 34 00.4               | 119 02.2               | PT           | 52 09 08                | 1327          | 42                  | 372                                  | 1.12                            | 100.0             | 54              | 50            |
| 85.0 | 40.0    | 33 55.8               | 119 09.6               | PT           | 52 09 08                | 1056          | 135                 | 504                                  | 2.69                            | 100.0             | 27              | 8             |
| 85.0 | 50.0    | 33 36.8               | 119 52.0               | PT           | 52 09 08                | 0516          | 123                 | 527                                  | 2.33                            | 100.0             | 122             | 1             |
| 85.0 | 60.0    | 33 19.0               | 120 33.5               | PT           | 52 09 07                | 2026          | 135                 | 480                                  | 2.82                            | 100.0             | 26              | 4             |
| 85.0 | 70.0    | 33 08.2               | 117 47.0               | PT           | 52 09 05                | 2201          | 128                 | 553                                  | 2.32                            | 100.0             | 35              | 20            |
| 90.0 | 28.0    | 33 28.2               | 117 55.3               | PT           | 52 09 06                | 0106          | 132                 | 515                                  | 2.56                            | 100.0             | 44              | 310           |
| 90.0 | 30.0    | 33 24.4               | 118 22.5               | PT           | 52 09 06                | 0511          | 142                 | 518                                  | 2.75                            | 100.0             | 11              | 89            |
| 90.0 | 37.0    | 33 09.5               | 118 01.0               | PT           | 52 09 06                | 0511          | 142                 | 518                                  | 2.75                            | 100.0             | 7               | 0             |
| 90.0 | 45.0    | 32 54.0               | 119 01.0               | PT           | 52 09 06                | 1056          | 124                 | 525                                  | 2.36                            | 100.0             | 7               | 8             |
| 90.0 | 53.0    | 32 38.3               | 119 57.0               | PT           | 52 09 06                | 1646          | 139                 | 484                                  | 2.87                            | 100.0             | 20              | 12            |
| 90.0 | 60.0    | 32 23.0               | 119 39.5               | PT           | 52 09 06                | 2316          | 147                 | 493                                  | 2.99                            | 100.0             | 20              | 12            |
| 90.0 | 70.0    | 32 01.0               | 120 39.5               | PT           | 52 09 07                | 0646          | 143                 | 535                                  | 2.68                            | 100.0             | 1               | 0             |
| 93.0 | 27.0    | 32 55.7               | 117 18.7               | PT           | 52 09 05                | 1238          | 34                  | 416                                  | 0.81                            | 100.0             | 44              | 246           |
| 93.0 | 30.0    | 32 50.4               | 117 23.2               | PT           | 52 09 05                | 1006          | 129                 | 575                                  | 2.25                            | 100.0             | 24              | 583           |
| 93.0 | 40.0    | 32 29.0               | 118 06.8               | PT           | 52 09 05                | 0236          | 142                 | 468                                  | 3.03                            | 100.0             | 69              | 22            |
| 93.0 | 50.0    | 32 05.5               | 118 51.5               | PT           | 52 09 04                | 2005          | 137                 | 542                                  | 2.53                            | 100.0             | 25              | 37            |
| 97.0 | 30.0    | 32 15.0               | 117 09.2               | PT           | 52 09 03                | 1858          | 38                  | 382                                  | 0.99                            | 100.0             | 41              | 947           |
| 97.0 | 32.0    | 32 11.2               | 117 17.2               | PT           | 52 09 03                | 2254          | 125                 | 613                                  | 2.04                            | 100.0             | 208             | 30            |



TABLE 1. (cont.)

## CalCOFI Cruise 5209

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|--------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 97.0  | 40.0    | 31 52.8               | 117 51.0               | PT           | 52 09 04           | 0516          | 121                 | 637                                  | 1.91                            | 50.0              | 105             | 57            |
| 97.0  | 50.0    | 31 30.2               | 118 32.1               | PT           | 52 09 04           | 1211          | 144                 | 507                                  | 2.85                            | 100.0             | 11              | 7             |
| 100.0 | 29.0    | 31 42.2               | 116 43.5               | CR           | 52 09 03           | 2033          | 67                  | 284                                  | 2.37                            | 100.0             | 45              | 41            |
| 100.0 | 30.0    | 31 40.5               | 116 46.7               | CR           | 52 09 03           | 2216          | 116                 | 548                                  | 2.12                            | 50.0              | 38              | 80            |
| 100.0 | 40.0    | 31 21.0               | 117 27.0               | CR           | 52 09 04           | 0401          | 140                 | 471                                  | 2.97                            | 100.0             | 40              | 30            |
| 100.0 | 50.0    | 31 01.0               | 118 07.0               | CR           | 52 09 04           | 0941          | 141                 | 456                                  | 3.09                            | 100.0             | 6               | 6             |
| 100.0 | 60.0    | 30 41.0               | 118 48.0               | CR           | 52 09 04           | 1521          | 143                 | 504                                  | 2.83                            | 100.0             | 23              | 20            |
| 100.0 | 70.0    | 30 21.0               | 119 27.0               | CR           | 52 09 04           | 2136          | 134                 | 506                                  | 2.64                            | 100.0             | 66              | 57            |
| 100.0 | 80.0    | 30 01.0               | 120 07.0               | CR           | 52 09 05           | 0346          | 143                 | 445                                  | 3.22                            | 100.0             | 24              | 59            |
| 103.0 | 30.0    | 31 05.0               | 116 25.0               | CR           | 52 09 06           | 0548          | 49                  | 237                                  | 2.06                            | 50.0              | 57              | 77            |
| 103.0 | 35.0    | 30 57.0               | 116 46.0               | CR           | 52 09 06           | 0301          | 149                 | 434                                  | 3.44                            | 100.0             | 16              | 20            |
| 103.0 | 40.0    | 30 48.5               | 117 07.5               | CR           | 52 09 05           | 2251          | 139                 | 488                                  | 2.85                            | 100.0             | 23              | 1             |
| 107.0 | 32.0    | 30 25.8               | 116 11.0               | CR           | 52 09 06           | 1056          | 134                 | 481                                  | 2.79                            | 50.0              | 34              | 246           |
| 107.0 | 35.0    | 30 20.0               | 116 23.0               | CR           | 52 09 06           | 1321          | 150                 | 418                                  | 3.59                            | 100.0             | 12              | 4             |
| 107.0 | 40.0    | 30 11.0               | 116 43.0               | CR           | 52 09 06           | 1641          | 141                 | 460                                  | 3.07                            | 100.0             | 10              | 1             |
| 110.0 | 33.0    | 29 50.5               | 115 52.5               | CR           | 52 09 07           | 1627          | 61                  | 196                                  | 3.13                            | 100.0             | 4               | 274           |
| 110.0 | 35.0    | 29 46.5               | 116 00.0               | CR           | 52 09 07           | 1426          | 131                 | 487                                  | 2.70                            | 100.0             | 4               | 0             |
| 110.0 | 40.0    | 29 34.5               | 116 21.4               | CR           | 52 09 07           | 1131          | 146                 | 433                                  | 3.38                            | 100.0             | 15              | 12            |
| 110.0 | 50.0    | 29 17.5               | 117 02.5               | CR           | 52 09 07           | 0721          | 136                 | 479                                  | 2.85                            | 100.0             | 107             | 33            |
| 113.0 | 30.0    | 29 22.5               | 115 17.7               | CR           | 52 09 07           | 0111          | 140                 | 478                                  | 2.93                            | 100.0             | 58              | 40            |
| 113.0 | 40.0    | 29 02.0               | 115 58.5               | CR           | 52 09 08           | 0146          | 143                 | 436                                  | 2.41                            | 50.0              | 417             | 38            |
| 117.0 | 26.0    | 28 56.0               | 114 41.0               | CR           | 52 09 08           | 1233          | 69                  | 245                                  | 2.80                            | 100.0             | 58              | 11            |
| 117.0 | 30.0    | 28 49.0               | 114 57.0               | CR           | 52 09 08           | 1043          | 64                  | 251                                  | 2.53                            | 100.0             | 89              | 521           |
| 120.0 | 25.0    | 28 28.0               | 114 35.5               | CR           | 52 09 08           | 0626          | 143                 | 431                                  | 3.31                            | 100.0             | 392             | 485           |
| 120.0 | 30.0    | 28 23.0               | 114 34.0               | CR           | 52 09 08           | 2053          | 28                  | 206                                  | 1.34                            | 100.0             | 17              | 214           |
| 120.0 | 35.0    | 28 02.0               | 114 58.0               | CR           | 52 09 09           | 0003          | 45                  | 229                                  | 1.97                            | 100.0             | 30              | 43            |
| 120.0 | 45.0    | 27 43.0               | 115 33.0               | CR           | 52 09 09           | 1645          | 34                  | 154                                  | 2.21                            | 100.0             | 142             | 165           |
| 120.0 | 50.0    | 27 32.5               | 115 53.0               | CR           | 52 09 09           | 0216          | 150                 | 482                                  | 3.11                            | 100.0             | 10              | 701           |
| 120.0 | 60.0    | 27 13.0               | 117 10.5               | CR           | 52 09 10           | 0731          | 153                 | 412                                  | 3.71                            | 100.0             | 4               | 0             |
| 120.0 | 70.0    | 26 52.0               | 117 49.0               | CR           | 52 09 10           | 1311          | 141                 | 461                                  | 3.16                            | 100.0             | 65              | 1             |
| 120.0 | 80.0    | 26 32.0               | 118 28.0               | CR           | 52 09 10           | 1841          | 152                 | 461                                  | 3.06                            | 100.0             | 23              | 18            |
| 120.0 | 90.0    | 26 13.0               | 114 40.0               | CR           | 52 09 11           | 1924          | 34                  | 139                                  | 3.29                            | 13.0              | 15              | 44            |
| 123.0 | 37.0    | 27 21.0               | 114 28.0               | CR           | 52 09 11           | 1756          | 150                 | 488                                  | 2.45                            | 25.0              | 205             | 132           |
| 123.0 | 40.0    | 27 15.0               | 114 47.0               | CR           | 52 09 11           | 1256          | 130                 | 506                                  | 3.06                            | 100.0             | 133             | 687           |
| 123.0 | 50.0    | 27 01.0               | 115 31.5               | CR           | 52 09 11           | 2328          | 61                  | 178                                  | 3.44                            | 100.0             | 230             | 1922          |
| 127.0 | 34.0    | 26 55.3               | 114 06.0               | CR           | 52 09 11           | 0321          | 137                 | 470                                  | 2.92                            | 100.0             | 3               | 6             |
| 127.0 | 40.0    | 26 43.5               | 114 29.5               | CR           | 52 09 12           | 0831          | 145                 | 443                                  | 3.28                            | 100.0             | 400             | 321           |
| 127.0 | 50.0    | 26 23.0               | 115 10.0               | CR           | 52 09 12           | 0653          | 51                  | 250                                  | 2.49                            | 100.0             | 53              | 16            |
| 130.0 | 30.0    | 26 29.0               | 113 29.0               | CR           | 52 09 13           | 0418          | 69                  | 250                                  | 2.76                            | 100.0             | 37              | 13            |
| 130.0 | 35.0    | 26 14.0               | 113 45.5               | CR           | 52 09 13           | 0136          | 136                 | 466                                  | 2.92                            | 100.0             | 114             | 116           |
| 130.0 | 40.0    | 26 06.0               | 114 05.5               | CR           | 52 09 13           | 1951          | 151                 | 423                                  | 3.56                            | 100.0             | 163             | 140           |
| 130.0 | 50.0    | 25 49.0               | 114 46.0               | CR           | 52 09 12           | 1441          | 142                 | 452                                  | 3.14                            | 100.0             | 64              | 4             |
| 130.0 | 60.0    | 25 29.0               | 115 24.0               | CR           | 52 09 12           |               |                     |                                      |                                 |                   | 31              | 16            |
|       |         |                       |                        |              |                    |               |                     |                                      |                                 |                   |                 | 22            |

TABLE 1. (cont.)

| CalCOFI Cruise 5209 |         |                       |                        |              |                    |             |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|-----------------------|------------------------|--------------|--------------------|-------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow<br>yr. mo. day | Tow<br>Date | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 133.0               | 25.0    | 26 04.5               | 112 47.0               | CR           | 52 09 13           | 1104        |               | 30                  | 130                                  | 2.27                            | 100.0             | 11              | 130           |
| 133.0               | 30.0    | 25 54.5               | 113 07.5               | CR           | 52 09 13           | 1316        |               | 141                 | 443                                  | 3.19                            | 25.0              | 9               | 8             |
| 137.0               | 23.0    | 25 34.5               | 112 19.0               | CR           | 52 09 13           | 2044        |               | 25                  | 150                                  | 1.69                            | 100.0             | 312             | 2767          |
| 137.0               | 30.0    | 25 23.0               | 112 47.5               | CR           | 52 09 13           | 1737        |               | 136                 | 438                                  | 3.12                            | 100.0             | 12              | 1             |

TABLE 1. (cont.)

## CalCOFI Cruise 5210

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 60.0  | 55.0    | 37 47.5               | 123 16.0               | CR           | 52 10 19                | 1213          | 64                  | 296                                  | 2.16                            | 50.0              | 10              | 21            |
| 60.0  | 60.0    | 37 37.8               | 123 37.8               | CR           | 52 10 19                | 0921          | 129                 | 523                                  | 2.47                            | 50.0              | 4               | 10            |
| 60.0  | 70.0    | 37 19.5               | 124 23.0               | CR           | 52 10 19                | 0326          | 134                 | 540                                  | 2.48                            | 50.0              | 19              | 2             |
| 60.0  | 80.0    | 37 04.5               | 125 07.0               | CR           | 52 10 18                | 2156          | 131                 | 474                                  | 2.77                            | 100.0             | 8               | 0             |
| 60.0  | 90.0    | 36 46.0               | 125 46.0               | CR           | 52 10 18                | 1711          | 125                 | 519                                  | 2.40                            | 100.0             | 3               | 8             |
| 60.0  | 100.0   | 36 27.0               | 126 30.0               | CR           | 52 10 18                | 1211          | 144                 | 518                                  | 2.78                            | 100.0             | 6               | 2             |
| 60.0  | 110.0   | 36 12.0               | 127 07.0               | CR           | 52 10 18                | 0801          | 130                 | 521                                  | 2.49                            | 100.0             | 4               | 0             |
| 63.0  | 52.0    | 37 19.0               | 122 36.0               | CR           | 52 10 19                | 1658          | 67                  | 279                                  | 2.41                            | 100.0             | 4               | 30            |
| 63.0  | 55.0    | 37 14.0               | 122 50.5               | CR           | 52 10 19                | 1901          | 144                 | 516                                  | 2.78                            | 50.0              | 24              | 1             |
| 67.0  | 55.0    | 36 39.0               | 122 26.0               | CR           | 52 10 19                | 2331          | 146                 | 420                                  | 3.49                            | 50.0              | 30              | 7             |
| 67.0  | 65.0    | 36 19.0               | 123 09.0               | CR           | 52 10 20                | 0416          | 143                 | 463                                  | 3.09                            | 25.0              | 12              | 2             |
| 70.0  | 60.0    | 35 52.0               | 122 23.0               | CR           | 52 10 20                | 2231          | 144                 | 494                                  | 2.92                            | 50.0              | 10              | 9             |
| 70.0  | 70.0    | 35 33.0               | 123 06.0               | CR           | 52 10 20                | 1636          | 144                 | 494                                  | 2.91                            | 100.0             | 13              | 3             |
| 70.0  | 80.0    | 35 17.0               | 123 46.0               | CR           | 52 10 20                | 1136          | 141                 | 461                                  | 3.06                            | 100.0             | 4               | 10            |
| 73.0  | 50.0    | 35 36.5               | 121 17.6               | CR           | 52 10 21                | 0822          | 0                   | 391                                  | 2.75                            | 100.0             | 14              | 0             |
| 73.0  | 60.0    | 35 18.0               | 121 58.0               | CR           | 52 10 21                | 0311          | 137                 | 438                                  | 3.12                            | 50.0              | 38              | 4             |
| 77.0  | 55.0    | 34 53.3               | 112 11.9               | CR           | 52 10 21                | 1256          | 152                 | 468                                  | 3.25                            | 50.0              | 9               | 14            |
| 77.0  | 65.0    | 34 34.0               | 121 55.0               | CR           | 52 10 21                | 1741          | 149                 | 468                                  | 3.18                            | 100.0             | 10              | 4             |
| 80.0  | 51.0    | 34 26.5               | 120 32.5               | CR           | 52 10 15                | 1314          | 82                  | 237                                  | 3.48                            | 100.0             | 0               | 0             |
| 80.0  | 55.0    | 34 19.0               | 120 48.0               | CR           | 52 10 15                | 1541          | 148                 | 488                                  | 3.04                            | 100.0             | 84              | 71            |
| 80.0  | 60.0    | 34 09.0               | 121 09.0               | CR           | 52 10 15                | 1916          | 141                 | 547                                  | 2.58                            | 100.0             | 36              | 9             |
| 80.0  | 70.0    | 33 49.0               | 121 51.0               | CR           | 52 10 16                | 0031          | 146                 | 515                                  | 2.83                            | 100.0             | 7               | 5             |
| 80.0  | 80.0    | 33 29.0               | 122 33.0               | CR           | 52 10 16                | 0606          | 141                 | 568                                  | 2.48                            | 100.0             | 24              | 29            |
| 80.0  | 90.0    | 33 09.0               | 123 13.0               | CR           | 52 10 16                | 1616          | 139                 | 482                                  | 3.07                            | 100.0             | 3               | 0             |
| 80.0  | 100.0   | 32 48.0               | 123 54.0               | CR           | 52 10 16                | 1643          | 78                  | 400                                  | 1.95                            | 100.0             | 32              | 7             |
| 85.0  | 38.0    | 34 00.5               | 119 02.5               | CR           | 52 10 14                | 1827          | 151                 | 447                                  | 1.38                            | 100.0             | 19              | 22            |
| 85.0  | 40.0    | 33 54.0               | 119 10.5               | CR           | 52 10 14                | 2302          | 111                 | 342                                  | 3.26                            | 50.0              | 9               | 2             |
| 85.0  | 50.0    | 33 40.0               | 119 54.2               | CR           | 52 10 15                | 0446          | 147                 | 492                                  | 2.99                            | 100.0             | 14              | 6             |
| 85.0  | 60.0    | 33 17.5               | 120 33.0               | CR           | 52 10 14                | 0906          | 141                 | 473                                  | 2.97                            | 100.0             | 43              | 171           |
| 90.0  | 28.0    | 33 29.4               | 117 47.0               | CR           | 52 10 14                | 0737          | 153                 | 432                                  | 3.54                            | 100.0             | 1               | 4             |
| 90.0  | 30.0    | 33 25.5               | 117 55.0               | CR           | 52 10 13                | 1331          | 135                 | 397                                  | 3.41                            | 100.0             | 8               | 4             |
| 90.0  | 45.0    | 32 54.5               | 118 56.0               | CR           | 52 10 13                | 0856          | 141                 | 475                                  | 2.97                            | 100.0             | 6               | 1             |
| 90.0  | 53.0    | 32 38.5               | 119 29.0               | CR           | 52 10 13                | 0510          | 130                 | 573                                  | 2.28                            | 100.0             | 14              | 1             |
| 90.0  | 60.0    | 32 28.0               | 119 51.0               | CR           | 52 10 13                | 0251          | 136                 | 498                                  | 2.74                            | 100.0             | 9               | 5             |
| 93.0  | 27.0    | 32 55.0               | 120 40.0               | CR           | 52 10 12                | 2246          | 138                 | 490                                  | 2.82                            | 100.0             | 24              | 9             |
| 93.0  | 30.0    | 32 49.5               | 117 32.5               | CR           | 52 10 12                | 0150          | 132                 | 580                                  | 2.27                            | 100.0             | 13              | 3             |
| 93.0  | 40.0    | 32 30.0               | 118 12.0               | CR           | 52 10 12                | 0651          | 141                 | 537                                  | 2.63                            | 100.0             | 7               | 4             |
| 93.0  | 50.0    | 32 11.0               | 118 53.0               | CR           | 52 10 12                | 1156          | 147                 | 444                                  | 3.32                            | 100.0             | 0               | 2             |
| 97.0  | 32.0    | 32 11.0               | 117 18.5               | CR           | 52 10 10                | 0600          | 144                 | 452                                  | 3.18                            | 100.0             | 40              | 2             |
| 97.0  | 40.0    | 31 55.0               | 117 50.0               | CR           | 52 10 10                | 0025          | 139                 | 436                                  | 3.19                            | 100.0             | 120             | 9             |
| 97.0  | 50.0    | 31 35.0               | 118 30.0               | CR           | 52 10 09                | 1825          | 141                 | 480                                  | 2.95                            | 100.0             | 17              | 1             |
| 100.0 | 29.0    | 31 42.0               | 116 45.7               | CR           | 52 10 07                | 2111          | 148                 | 381                                  | 3.89                            | 100.0             | 20              | 54            |
| 100.0 | 30.0    | 31 40.0               | 116 46.5               | CR           | 52 10 07                | 2228          | 73                  | 260                                  | 2.80                            | 100.0             | 37              | 38            |
| 100.0 | 40.0    | 31 19.0               | 117 26.0               | CR           | 52 10 08                | 0454          | 133                 | 626                                  | 2.13                            | 100.0             | 16              | 0             |

TABLE 1. (cont.)

## CalCOFI Cruise 5210

| Line  | Station | Lat. (N)<br>deg. min. | Long. (W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|-----------------------|------------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 100.0 | 50.0    | 31 01.0               | 118 07.0               | CR           | 52 10 08                | 1031          | 141                 | 448                                  | 3.15                            | 100.0             | 56              | 2             |
| 100.0 | 60.0    | 30 41.0               | 118 47.5               | CR           | 52 10 08                | 1646          | 142                 | 482                                  | 2.95                            | 100.0             | 9               | 10            |
| 100.0 | 70.0    | 30 20.5               | 119 27.0               | CR           | 52 10 08                | 2211          | 138                 | 422                                  | 3.26                            | 100.0             | 236             | 26            |
| 100.0 | 80.0    | 30 01.5               | 120 07.0               | CR           | 52 10 09                | 0426          | 126                 | 504                                  | 2.50                            | 100.0             | 70              | 22            |
| 103.0 | 30.0    | 31 04.2               | 116 25.0               | PT           | 52 10 08                | 1404          | 135                 | 590                                  | 1.87                            | 50.0              | 9               | 493           |
| 103.0 | 35.0    | 30 53.8               | 116 47.5               | PT           | 52 10 08                | 0931          | 120                 | 544                                  | 2.20                            | 100.0             | 27              | 1             |
| 103.0 | 40.0    | 30 45.9               | 117 06.2               | PT           | 52 10 08                | 0424          | 31                  | 165                                  | 2.29                            | 100.0             | 41              | 3             |
| 107.0 | 32.0    | 30 26.1               | 116 11.7               | PT           | 52 10 08                | 1923          | 39                  | 199                                  | 1.95                            | 100.0             | 56              | 298           |
| 107.0 | 35.0    | 30 18.0               | 116 23.5               | PT           | 52 10 08                | 2211          | 130                 | 482                                  | 2.69                            | 100.0             | 68              | 11            |
| 110.0 | 33.0    | 29 48.5               | 115 51.0               | PT           | 52 10 10                | 0928          | 40                  | 194                                  | 2.06                            | 100.0             | 13              | 189           |
| 110.0 | 35.0    | 29 42.1               | 115 55.5               | PT           | 52 10 10                | 0740          | 58                  | 339                                  | 1.71                            | 100.0             | 42              | 9             |
| 110.0 | 40.0    | 29 33.0               | 116 16.0               | PT           | 52 10 10                | 0346          | 127                 | 580                                  | 2.20                            | 100.0             | 118             | 1             |
| 110.0 | 50.0    | 29 13.8               | 116 56.5               | PT           | 52 10 09                | 2041          | 134                 | 480                                  | 2.79                            | 100.0             | 75              | 3             |
| 110.0 | 60.0    | 28 55.0               | 117 37.5               | PT           | 52 10 09                | 1341          | 137                 | 459                                  | 2.99                            | 100.0             | 49              | 34            |
| 113.0 | 30.0    | 29 22.5               | 115 22.2               | PT           | 52 10 10                | 1439          | 34                  | 252                                  | 1.34                            | 100.0             | 58              | 117           |
| 113.0 | 40.0    | 29 02.0               | 115 58.5               | PT           | 52 10 10                | 2046          | 150                 | 446                                  | 3.36                            | 100.0             | 752             | 286           |
| 117.0 | 26.0    | 28 54.0               | 114 39.5               | PT           | 52 10 11                | 1133          | 38                  | 237                                  | 1.61                            | 100.0             | 71              | 39            |
| 117.0 | 30.0    | 28 47.0               | 114 55.8               | PT           | 52 10 11                | 0858          | 52                  | 240                                  | 2.15                            | 100.0             | 239             | 141           |
| 117.0 | 40.0    | 28 28.9               | 115 37.2               | PT           | 52 10 11                | 0241          | 118                 | 556                                  | 2.12                            | 100.0             | 81              | 8             |
| 120.0 | 25.0    | 28 24.1               | 114 35.4               | PT           | 52 10 11                | 1623          | 42                  | 179                                  | 2.36                            | 100.0             | 19              | 104           |
| 120.0 | 30.0    | 28 11.2               | 114 35.4               | PT           | 52 10 13                | 0033          | 36                  | 242                                  | 1.50                            | 50.0              | 59              | 825           |
| 120.0 | 35.0    | 27 59.2               | 114 56.8               | PT           | 52 10 13                | 0413          | 55                  | 237                                  | 2.34                            | 100.0             | 116             | 176           |
| 120.0 | 45.0    | 27 41.8               | 115 36.0               | PT           | 52 10 13                | 1605          | 132                 | 561                                  | 2.35                            | 100.0             | 19              | 3             |
| 120.0 | 50.0    | 27 32.5               | 115 51.5               | PT           | 52 10 13                | 2016          | 133                 | 525                                  | 2.54                            | 100.0             | 59              | 5             |
| 120.0 | 60.0    | 27 11.0               | 116 30.0               | PT           | 52 10 14                | 0301          | 116                 | 584                                  | 1.98                            | 100.0             | 309             | 52            |
| 120.0 | 70.0    | 26 50.5               | 117 09.0               | PT           | 52 10 14                | 0931          | 133                 | 502                                  | 2.65                            | 100.0             | 112             | 84            |
| 120.0 | 80.0    | 26 28.6               | 117 47.5               | PT           | 52 10 14                | 1606          | 123                 | 516                                  | 2.39                            | 100.0             | 25              | 16            |
| 120.0 | 90.0    | 26 08.0               | 118 25.8               | PT           | 52 10 14                | 2251          | 137                 | 450                                  | 3.05                            | 100.0             | 174             | 11            |
| 123.0 | 37.0    | 27 23.8               | 114 39.3               | PT           | 52 10 16                | 0708          | 35                  | 215                                  | 1.63                            | 100.0             | 12              | 70            |
| 123.0 | 40.0    | 27 16.0               | 114 56.3               | PT           | 52 10 16                | 0421          | 126                 | 569                                  | 2.21                            | 100.0             | 70              | 24            |
| 123.0 | 50.0    | 26 54.0               | 115 37.2               | PT           | 52 10 15                | 2056          | 125                 | 519                                  | 2.40                            | 100.0             | 29              | 8             |
| 127.0 | 34.0    | 26 55.2               | 114 06.0               | PT           | 52 10 16                | 1353          | 36                  | 232                                  | 1.54                            | 100.0             | 15              | 973           |
| 127.0 | 40.0    | 26 43.3               | 114 29.5               | PT           | 52 10 16                | 1756          | 116                 | 581                                  | 2.00                            | 100.0             | 12              | 48            |
| 127.0 | 50.0    | 26 18.5               | 115 10.0               | PT           | 52 10 17                | 0116          | 131                 | 536                                  | 2.45                            | 100.0             | 23              | 14            |
| 130.0 | 30.0    | 26 29.5               | 113 28.1               | PT           | 52 10 18                | 0458          | 36                  | 286                                  | 1.25                            | 100.0             | 1059            | 267           |
| 130.0 | 35.0    | 26 18.5               | 113 43.2               | PT           | 52 10 18                | 0158          | 66                  | 280                                  | 2.36                            | 100.0             | 108             | 541           |
| 130.0 | 40.0    | 26 09.0               | 114 05.0               | PT           | 52 10 17                | 2221          | 138                 | 429                                  | 3.22                            | 100.0             | 70              | 30            |
| 130.0 | 50.0    | 25 49.0               | 114 46.0               | PT           | 52 10 17                | 1546          | 131                 | 555                                  | 2.36                            | 100.0             | 13              | 12            |
| 130.0 | 60.0    | 25 19.5               | 115 26.5               | PT           | 52 10 17                | 0926          | 117                 | 566                                  | 2.06                            | 100.0             | 28              | 15            |
| 133.0 | 25.0    | 26 04.5               | 112 48.0               | PT           | 52 10 18                | 1038          | 57                  | 218                                  | 2.62                            | 100.0             | 179             | 79            |
| 133.0 | 30.0    | 25 54.8               | 113 07.5               | PT           | 52 10 18                | 1303          | 58                  | 313                                  | 1.84                            | 100.0             | 96              | 128           |
| 137.0 | 23.0    | 25 34.2               | 112 18.6               | PT           | 52 10 18                | 2223          | 39                  | 228                                  | 1.70                            | 100.0             | 507             | 2013          |
| 137.0 | 30.0    | 25 20.5               | 112 44.4               | PT           | 52 10 18                | 1816          | 137                 | 440                                  | 3.11                            | 100.0             | 136             | 1             |

TABLE 1. (cont.)

| CalCOFI Cruise 5211 |         |                      |                       |              |                         |               |                     |                                      |                                 |                   |                 |               |
|---------------------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| Line                | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
| 60.0                | 55.0    | 37 47.5              | 123 15.0              | BD           | 52 11 20                | 0148          | 51                  | 247                                  | 2.07                            | 100.0             | 11              | 502           |
| 60.0                | 60.0    | 37 37.0              | 123 37.0              | BD           | 52 11 20                | 0441          | 144                 | 480                                  | 3.00                            | 100.0             | 41              | 35            |
| 60.0                | 70.0    | 37 17.0              | 124 21.0              | BD           | 52 11 20                | 1057          | 137                 | 470                                  | 2.92                            | 100.0             | 9               | 36            |
| 60.0                | 80.0    | 36 57.0              | 125 04.0              | BD           | 52 11 20                | 1756          | 141                 | 513                                  | 2.76                            | 100.0             | 18              | 10            |
| 60.0                | 90.0    | 36 37.0              | 125 47.0              | BD           | 52 11 20                | 0036          | 147                 | 492                                  | 2.99                            | 100.0             | 15              | 10            |
| 60.0                | 100.0   | 36 17.0              | 126 30.0              | BD           | 52 11 21                | 0651          | 138                 | 557                                  | 2.48                            | 100.0             | 4               | 14            |
| 60.0                | 110.0   | 35 57.0              | 127 12.0              | BD           | 52 11 21                | 1232          | 140                 | 489                                  | 2.86                            | 100.0             | 13              | 17            |
| 63.0                | 52.0    | 37 19.0              | 122 36.2              | BD           | 52 11 19                | 1808          | 54                  | 232                                  | 2.34                            | 100.0             | 6               | 120           |
| 63.0                | 55.0    | 37 14.0              | 122 49.5              | BD           | 52 11 19                | 2006          | 142                 | 530                                  | 2.68                            | 50.0              | 11              | 9             |
| 67.0                | 50.0    | 36 49.0              | 122 04.6              | BD           | 52 11 19                | 1258          | 54                  | 252                                  | 2.15                            | 100.0             | 10              | 3             |
| 67.0                | 55.0    | 36 39.0              | 122 26.0              | BD           | 52 11 19                | 0911          | 142                 | 542                                  | 2.63                            | 100.0             | 8               | 34            |
| 67.0                | 65.0    | 36 19.0              | 123 09.0              | BD           | 52 11 19                | 0226          | 139                 | 521                                  | 2.67                            | 100.0             | 23              | 21            |
| 70.0                | 51.0    | 36 10.4              | 121 45.7              | BD           | 52 11 17                | 1756          | 127                 | 503                                  | 2.53                            | 100.0             | 45              | 4             |
| 70.0                | 60.0    | 35 53.0              | 122 23.0              | BD           | 52 11 18                | 0126          | 140                 | 527                                  | 2.67                            | 100.0             | 38              | 57            |
| 70.0                | 70.0    | 35 33.0              | 123 06.0              | BD           | 52 11 18                | 0836          | 140                 | 499                                  | 2.81                            | 100.0             | 7               | 41            |
| 70.0                | 80.0    | 35 13.0              | 123 48.0              | BD           | 52 11 18                | 1341          | 139                 | 507                                  | 2.74                            | 100.0             | 8               | 12            |
| 77.0                | 55.0    | 34 54.5              | 121 13.0              | BD           | 52 11 14                | 2335          | 147                 | 510                                  | 2.88                            | 100.0             | 22              | 110           |
| 77.0                | 65.0    | 34 34.0              | 121 55.0              | BD           | 52 11 14                | 1621          | 139                 | 513                                  | 2.70                            | 100.0             | 14              | 74            |
| 80.0                | 51.0    | 34 26.5              | 120 32.5              | BD           | 52 11 12                | 1359          | 58                  | 334                                  | 1.72                            | 100.0             | 18              | 33            |
| 80.0                | 55.0    | 34 19.0              | 120 48.0              | BD           | 52 11 12                | 1636          | 138                 | 507                                  | 2.73                            | 100.0             | 31              | 103           |
| 80.0                | 60.0    | 34 09.0              | 121 09.0              | BD           | 52 11 12                | 2021          | 137                 | 514                                  | 2.66                            | 100.0             | 15              | 60            |
| 80.0                | 70.0    | 33 49.0              | 121 51.0              | BD           | 52 11 13                | 0256          | 141                 | 530                                  | 2.66                            | 100.0             | 17              | 5             |
| 80.0                | 80.0    | 33 29.0              | 122 32.0              | BD           | 52 11 13                | 0921          | 142                 | 497                                  | 2.86                            | 100.0             | 9               | 4             |
| 80.0                | 90.0    | 33 09.0              | 123 13.0              | BD           | 52 11 13                | 1556          | 139                 | 494                                  | 2.80                            | 100.0             | 0               | 3             |
| 80.0                | 100.0   | 32 49.0              | 123 54.0              | BD           | 52 11 13                | 2121          | 141                 | 478                                  | 3.01                            | 100.0             | 10              | 0             |
| 85.0                | 38.0    | 34 01.0              | 119 02.3              | BD           | 52 11 12                | 0321          | 137                 | 534                                  | 2.56                            | 100.0             | 173             | 727           |
| 85.0                | 40.0    | 33 57.0              | 119 10.5              | BD           | 52 11 12                | 0131          | 133                 | 523                                  | 2.55                            | 100.0             | 92              | 1282          |
| 85.0                | 50.0    | 33 37.0              | 119 52.0              | BD           | 52 11 11                | 1931          | 139                 | 538                                  | 2.59                            | 100.0             | 16              | 29            |
| 85.0                | 60.0    | 33 17.0              | 120 33.5              | BD           | 52 11 11                | 1256          | 142                 | 484                                  | 2.93                            | 100.0             | 1               | 4             |
| 90.0                | 28.0    | 33 28.5              | 117 46.7              | BD           | 52 11 09                | 1103          | 55                  | 234                                  | 2.37                            | 100.0             | 43              | 75            |
| 90.0                | 30.0    | 33 24.5              | 117 55.0              | BD           | 52 11 09                | 2306          | 142                 | 532                                  | 2.67                            | 100.0             | 63              | 70            |
| 90.0                | 37.0    | 33 11.0              | 118 23.5              | BD           | 52 11 10                | 0316          | 138                 | 505                                  | 2.74                            | 100.0             | 40              | 52            |
| 90.0                | 45.0    | 32 54.5              | 118 56.0              | BD           | 52 11 10                | 0851          | 143                 | 481                                  | 2.98                            | 100.0             | 4               | 92            |
| 90.0                | 53.0    | 32 38.5              | 119 29.0              | BD           | 52 11 10                | 1409          | 141                 | 505                                  | 2.79                            | 100.0             | 5               | 15            |
| 90.0                | 60.0    | 32 25.0              | 119 57.5              | BD           | 52 11 10                | 1906          | 136                 | 519                                  | 2.62                            | 100.0             | 18              | 5             |
| 90.0                | 70.0    | 32 04.5              | 120 39.0              | BD           | 52 11 10                | 0121          | 141                 | 517                                  | 2.74                            | 100.0             | 9               | 1             |
| 93.0                | 27.0    | 32 56.0              | 117 19.2              | BD           | 52 11 09                | 0526          | 136                 | 462                                  | 2.95                            | 100.0             | 76              | 77            |
| 93.0                | 30.0    | 32 50.0              | 117 31.5              | BD           | 52 11 09                | 0141          | 135                 | 500                                  | 2.80                            | 100.0             | 38              | 200           |
| 93.0                | 40.0    | 32 30.0              | 118 12.5              | BD           | 52 11 08                | 1944          | 135                 | 584                                  | 2.31                            | 100.0             | 37              | 6             |
| 93.0                | 50.0    | 32 10.0              | 118 53.5              | BD           | 52 11 08                | 1331          | 137                 | 518                                  | 2.64                            | 100.0             | 2               | 5             |
| 97.0                | 30.0    | 32 15.4              | 117 08.8              | BD           | 52 11 07                | 1703          | 38                  | 238                                  | 1.61                            | 100.0             | 7               | 88            |
| 97.0                | 32.0    | 32 11.5              | 117 17.0              | BD           | 52 11 07                | 1841          | 136                 | 563                                  | 2.42                            | 100.0             | 24              | 52            |
| 97.0                | 40.0    | 31 55.5              | 117 50.0              | BD           | 52 11 08                | 0011          | 139                 | 579                                  | 2.39                            | 100.0             | 33              | 5             |
| 97.0                | 50.0    | 31 35.5              | 118 30.5              | BD           | 52 11 08                | 0646          | 135                 | 589                                  | 2.30                            | 100.0             | 4               | 0             |
| 100.0               | 29.0    | 31 42.0              | 116 44.5              | CR           | 52 11 05                | 2021          | 54                  | 423                                  | 1.26                            | 100.0             | 24              | 46            |

TABLE 1. (cont.)

## CalCOFI Cruise 5211

| Line  | Station | Lat.(N)<br>deg. min. | Long.(W)<br>deg. min. | Ship<br>Code | Tow Date<br>yr. mo. day | Time<br>(PST) | Tow<br>Depth<br>(m) | Vol.<br>Water<br>Strained<br>(cu. m) | Stand-<br>ard<br>Haul<br>Factor | Percent<br>Sorted | Total<br>Larvae | Total<br>Eggs |
|-------|---------|----------------------|-----------------------|--------------|-------------------------|---------------|---------------------|--------------------------------------|---------------------------------|-------------------|-----------------|---------------|
| 100.0 | 30.0    | 31 40.2              | 116 47.0              | CR           | 52 11 05                | 2126          | 113                 | 522                                  | 2.16                            | 100.0             | 23              | 36            |
| 100.0 | 40.0    | 31 21.0              | 117 27.0              | CR           | 52 11 06                | 0251          | 109                 | 604                                  | 1.81                            | 100.0             | 11              | 4             |
| 100.0 | 50.0    | 31 01.0              | 118 06.0              | CR           | 52 11 06                | 0756          | 133                 | 483                                  | 2.76                            | 100.0             | 4               | 0             |
| 100.0 | 60.0    | 30 41.0              | 118 47.0              | CR           | 52 11 06                | 1216          | 140                 | 438                                  | 3.19                            | 100.0             | 8               | 1             |
| 100.0 | 70.0    | 30 20.5              | 119 27.0              | CR           | 52 11 06                | 1721          | 134                 | 447                                  | 3.01                            | 100.0             | 12              | 29            |
| 100.0 | 80.0    | 30 01.0              | 120 06.5              | CR           | 52 11 06                | 2226          | 106                 | 532                                  | 1.98                            | 100.0             | 103             | 86            |
| 103.0 | 30.0    | 31 05.0              | 116 25.0              | CR           | 52 11 07                | 1924          | 26                  | 111                                  | 2.39                            | 100.0             | 18              | 103           |
| 103.0 | 35.0    | 30 55.5              | 116 45.0              | CR           | 52 11 07                | 1706          | 127                 | 476                                  | 2.68                            | 100.0             | 23              | 2             |
| 103.0 | 40.0    | 30 45.5              | 117 05.5              | CR           | 52 11 07                | 1426          | 123                 | 505                                  | 2.44                            | 100.0             | 5               | 6             |
| 107.0 | 32.0    | 30 25.5              | 116 12.0              | CR           | 52 11 07                | 2351          | 90                  | 573                                  | 1.58                            | 100.0             | 71              | 64            |
| 107.0 | 35.0    | 30 20.0              | 116 23.0              | CR           | 52 11 08                | 0156          | 138                 | 441                                  | 3.12                            | 100.0             | 133             | 26            |
| 110.0 | 33.0    | 29 50.5              | 115 52.0              | CR           | 52 11 09                | 0424          | 35                  | 173                                  | 2.02                            | 100.0             | 173             | 99            |
| 110.0 | 35.0    | 29 39.0              | 116 13.0              | CR           | 52 11 09                | 0201          | 131                 | 527                                  | 2.49                            | 100.0             | 31              | 1             |
| 110.0 | 40.0    | 29 30.0              | 116 33.0              | CR           | 52 11 08                | 2241          | 144                 | 459                                  | 3.14                            | 100.0             | 103             | 2             |
| 110.0 | 50.0    | 29 17.0              | 117 01.0              | CR           | 52 11 08                | 1801          | 127                 | 489                                  | 2.59                            | 100.0             | 168             | 4             |
| 110.0 | 60.0    | 29 00.0              | 117 33.0              | CR           | 52 11 08                | 1346          | 136                 | 466                                  | 2.91                            | 100.0             | 13              | 15            |
| 113.0 | 30.0    | 29 22.3              | 115 18.0              | CR           | 52 11 09                | 0909          | 37                  | 168                                  | 2.22                            | 100.0             | 84              | 84            |
| 113.0 | 35.0    | 29 12.0              | 115 39.0              | CR           | 52 11 09                | 1211          | 149                 | 426                                  | 3.51                            | 100.0             | 25              | 45            |
| 113.0 | 40.0    | 29 02.0              | 115 58.5              | CR           | 52 11 09                | 1526          | 127                 | 455                                  | 2.79                            | 100.0             | 17              | 3             |
| 117.0 | 26.0    | 28 56.0              | 114 41.0              | CR           | 52 11 10                | 0819          | 39                  | 118                                  | 3.29                            | 100.0             | 49              | 57            |
| 117.0 | 30.0    | 28 48.0              | 114 56.5              | CR           | 52 11 10                | 0607          | 49                  | 196                                  | 2.51                            | 100.0             | 47              | 79            |
| 117.0 | 35.0    | 28 38.0              | 115 16.0              | CR           | 52 11 09                | 2301          | 112                 | 495                                  | 2.26                            | 100.0             | 173             | 58            |
| 117.0 | 40.0    | 28 28.0              | 115 35.5              | CR           | 52 11 09                | 2016          | 120                 | 468                                  | 2.57                            | 100.0             | 98              | 3             |
| 120.0 | 25.0    | 28 23.0              | 114 15.0              | CR           | 52 11 10                | 1513          | 44                  | 165                                  | 2.64                            | 100.0             | 2               | 23            |
| 120.0 | 30.0    | 28 13.0              | 114 34.0              | CR           | 52 11 10                | 2138          | 36                  | 198                                  | 1.81                            | 100.0             | 67              | 115           |
| 120.0 | 35.0    | 28 03.0              | 114 54.0              | CR           | 52 11 11                | 0113          | 47                  | 230                                  | 2.04                            | 100.0             | 53              | 279           |
| 120.0 | 45.0    | 27 43.0              | 115 33.0              | CR           | 52 11 11                | 2326          | 116                 | 507                                  | 2.30                            | 100.0             | 14              | 8             |
| 120.0 | 50.0    | 27 31.5              | 115 51.0              | CR           | 52 11 12                | 0221          | 124                 | 494                                  | 2.51                            | 100.0             | 20              | 2             |
| 120.0 | 60.0    | 27 15.0              | 116 34.0              | CR           | 52 11 12                | 0721          | 120                 | 500                                  | 2.41                            | 100.0             | 50              | 21            |
| 120.0 | 70.0    | 26 52.0              | 117 10.0              | CR           | 52 11 12                | 1156          | 144                 | 460                                  | 3.13                            | 100.0             | 14              | 25            |
| 120.0 | 80.0    | 26 32.5              | 117 48.2              | CR           | 52 11 12                | 1641          | 119                 | 490                                  | 2.42                            | 100.0             | 69              | 12            |
| 120.0 | 90.0    | 26 13.0              | 118 28.0              | CR           | 52 11 12                | 2131          | 134                 | 462                                  | 2.89                            | 100.0             | 105             | 5             |
| 123.0 | 37.0    | 27 24.0              | 114 39.5              | CR           | 52 11 13                | 2044          | 32                  | 248                                  | 1.27                            | 100.0             | 43              | 296           |
| 123.0 | 40.0    | 27 18.0              | 114 47.0              | CR           | 52 11 13                | 1856          | 150                 | 395                                  | 3.80                            | 100.0             | 15              | 48            |
| 123.0 | 50.0    | 26 58.0              | 115 31.0              | CR           | 52 11 13                | 1416          | 130                 | 455                                  | 2.85                            | 100.0             | 12              | 1             |
| 127.0 | 34.0    | 26 55.5              | 114 06.0              | CR           | 52 11 14                | 0818          | 26                  | 206                                  | 1.26                            | 100.0             | 7               | 224           |
| 127.0 | 50.0    | 26 23.0              | 115 08.0              | CR           | 52 11 14                | 1705          | 141                 | 462                                  | 3.06                            | 100.0             | 19              | 19            |
| 130.0 | 30.0    | 26 29.0              | 113 29.0              | CR           | 52 11 15                | 1227          | 36                  | 228                                  | 1.58                            | 100.0             | 15              | 162           |
| 130.0 | 35.0    | 26 19.0              | 113 49.0              | CR           | 52 11 15                | 1227          | 110                 | 392                                  | 2.80                            | 100.0             | 11              | 259           |
| 130.0 | 40.0    | 26 14.5              | 114 10.7              | CR           | 52 11 15                | 0941          | 93                  | 582                                  | 1.60                            | 100.0             | 49              | 8             |
| 130.0 | 50.0    | 25 50.0              | 114 46.0              | CR           | 52 11 15                | 0431          | 125                 | 492                                  | 2.54                            | 100.0             | 11              | 6             |
| 130.0 | 60.0    | 25 29.0              | 115 23.5              | CR           | 52 11 14                | 2326          | 138                 | 457                                  | 3.03                            | 100.0             | 105             | 0             |
| 133.0 | 25.0    | 26 05.0              | 112 48.0              | CR           | 52 11 15                | 1944          | 29                  | 126                                  | 2.12                            | 100.0             | 23              | 35            |
| 133.0 | 30.0    | 25 54.5              | 113 07.5              | CR           | 52 11 15                | 0544          | 38                  | 192                                  | 1.99                            | 100.0             | 31              | 0             |
| 137.0 | 23.0    | 25 34.0              | 112 19.0              | CR           | 52 11 16                | 0544          | 32                  | 154                                  | 2.06                            | 100.0             | 5               | 390           |
| 137.0 | 30.0    | 25 20.0              | 112 45.5              | CR           | 52 11 16                | 0241          | 151                 | 452                                  | 3.35                            | 100.0             | 14              | 0             |

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1952.

| Rank | Taxon                               | Occurrences |
|------|-------------------------------------|-------------|
| 1    | <i>Triphoturus mexicanus</i>        | 715         |
| 2    | <i>Sebastes</i> spp.                | 686         |
| 3    | <i>Lampanyctus</i> spp.             | 555         |
| 4    | <i>Citharichthys</i> spp.           | 524         |
| 4    | <i>Engraulis mordax</i>             | 524         |
| 6    | <i>Leuroglossus stilbius</i>        | 502         |
| 7    | <i>Vinciguerrria lucetia</i>        | 474         |
| 8    | <i>Trachurus symmetricus</i>        | 419         |
| 9    | <i>Stenobranchius leucopsarus</i>   | 405         |
| 10   | <i>Tarletonbeania crenularis</i>    | 399         |
| 11   | <i>Bathylagus wesethi</i>           | 370         |
| 12   | <i>Merluccius productus</i>         | 366         |
| 13   | <i>Protomyctophum crockeri</i>      | 345         |
| 14   | <i>Cyclothone</i> spp.              | 283         |
| 15   | <i>Sardinops sagax</i>              | 269         |
| 16   | Disintegrated fish larva            | 253         |
| 17   | <i>Diogenichthys laternatus</i>     | 233         |
| 17   | <i>Melamphaes</i> spp.              | 233         |
| 19   | <i>Bathylagus ochotensis</i>        | 222         |
| 20   | Unidentified fish larva             | 218         |
| 21   | Myctophidae                         | 186         |
| 22   | <i>Symbolophorus californiensis</i> | 183         |
| 23   | Paralepididae                       | 179         |
| 24   | <i>Diaphus</i> spp.                 | 156         |
| 25   | <i>Icichthys lockingtoni</i>        | 139         |
| 26   | Labridae                            | 135         |
| 27   | <i>Stomias atriventer</i>           | 120         |
| 28   | <i>Diogenichthys atlanticus</i>     | 112         |
| 29   | Gobiidae                            | 107         |
| 30   | <i>Lyopsetta exilis</i>             | 80          |
| 31   | <i>Ceratospopelus townsendi</i>     | 78          |
| 32   | <i>Scomber japonicus</i>            | 73          |
| 33   | <i>Chauliodus macouni</i>           | 69          |
| 34   | <i>Argentina sialis</i>             | 68          |
| 35   | Sternoptychidae                     | 67          |
| 36   | <i>Synodus</i> spp.                 | 63          |
| 36   | <i>Nansenia crassa</i>              | 63          |
| 38   | Sciaenidae                          | 61          |
| 39   | Scopelarchidae                      | 54          |
| 40   | Ophidiiformes                       | 53          |
| 41   | <i>Symphurus</i> spp.               | 50          |
| 41   | <i>Paralichthys californicus</i>    | 50          |
| 41   | <i>Peprilus simillimus</i>          | 50          |
| 44   | <i>Pleuronichthys verticalis</i>    | 44          |
| 44   | <i>Gonichthys tenuiculus</i>        | 44          |
| 46   | Trachipteridae                      | 40          |
| 47   | Cottidae                            | 36          |
| 48   | <i>Hygophum atratum</i>             | 35          |

TABLE 2. (cont.)

| Rank | Taxon                             | Occurrences |
|------|-----------------------------------|-------------|
| 49   | <i>Myctophum nitidulum</i>        | 34          |
| 50   | Chiasmodontidae                   | 33          |
| 51   | <i>Hypsoblennius</i> spp.         | 32          |
| 52   | <i>Parophrys vetulus</i>          | 31          |
| 52   | <i>Idiacanthus antrostomus</i>    | 31          |
| 52   | Trichiuridae                      | 31          |
| 55   | <i>Microstomus pacificus</i>      | 30          |
| 56   | Serranidae                        | 29          |
| 57   | <i>Microstoma microstoma</i>      | 28          |
| 57   | <i>Cololabis saira</i>            | 28          |
| 59   | <i>Hippoglossina stomata</i>      | 27          |
| 59   | <i>Chromis punctipinnis</i>       | 27          |
| 61   | Anguilliformes                    | 26          |
| 62   | <i>Glyptocephalus zachirus</i>    | 25          |
| 63   | <i>Ichthyococcus</i> spp.         | 23          |
| 64   | <i>Lampadena urophaos</i>         | 22          |
| 65   | <i>Hygophum</i> spp.              | 20          |
| 66   | <i>Prionotus</i> spp.             | 19          |
| 67   | <i>Loweina rara</i>               | 18          |
| 67   | <i>Etrumeus acuminatus</i>        | 18          |
| 67   | <i>Brosmophycis marginata</i>     | 18          |
| 70   | <i>Nansenia candida</i>           | 17          |
| 70   | <i>Chilara taylori</i>            | 17          |
| 70   | <i>Tetragonurus cuvieri</i>       | 17          |
| 73   | <i>Xystreurus liolepis</i>        | 16          |
| 73   | <i>Sphyraena argentea</i>         | 16          |
| 73   | <i>Sebastolobus</i> spp.          | 16          |
| 76   | <i>Tactostoma macropus</i>        | 15          |
| 76   | <i>Bathylagus pacificus</i>       | 15          |
| 78   | <i>Hygophum reinhardtii</i>       | 14          |
| 78   | <i>Pleuronichthys</i> spp.        | 14          |
| 78   | Carangidae                        | 14          |
| 81   | Pleuronectiformes                 | 13          |
| 81   | <i>Ophidion scrippsae</i>         | 13          |
| 81   | Cyclopteridae                     | 13          |
| 84   | <i>Medialuna californiensis</i>   | 11          |
| 85   | Scorpaenidae                      | 9           |
| 86   | <i>Scorpaenichthys marmoratus</i> | 8           |
| 86   | <i>Aristostomias scintillans</i>  | 8           |
| 86   | <i>Pleuronichthys ritteri</i>     | 8           |
| 89   | Atherinidae                       | 6           |
| 89   | <i>Syngnathus</i> spp.            | 6           |
| 89   | <i>Pleuronichthys coenosus</i>    | 6           |
| 92   | <i>Girella nigricans</i>          | 5           |
| 93   | Clinidae                          | 4           |
| 93   | <i>Scopelogadus bispinosus</i>    | 4           |
| 93   | <i>Icosteus aenigmaticus</i>      | 4           |
| 93   | Agonidae                          | 4           |
| 93   | Macrouridae                       | 4           |
| 93   | <i>Pleuronichthys decurrens</i>   | 4           |



TABLE 2. (cont.)

| Rank | Taxon                           | Occurrences |
|------|---------------------------------|-------------|
| 93   | <i>Poromitra</i> spp.           | 4           |
| 93   | <i>Electrona rissoi</i>         | 4           |
| 93   | <i>Notolychnus valdiviae</i>    | 4           |
| 93   | <i>Opisthonema</i> spp.         | 4           |
| 93   | <i>Notoscopelus resplendens</i> | 4           |
| 104  | <i>Diogenichthys</i> spp.       | 3           |
| 104  | Ceratioidei                     | 3           |
| 106  | Exocoetidae                     | 2           |
| 106  | <i>Syacium ovale</i>            | 2           |
| 108  | Gempylidae                      | 1           |
| 108  | Gobiesocidae                    | 1           |
| 108  | <i>Ophiodon elongatus</i>       | 1           |
| 108  | <i>Diplophos taenia</i>         | 1           |
| 108  | <i>Auxis</i> spp.               | 1           |
| 108  | Scombridae                      | 1           |
| 108  | Carapidae                       | 1           |
| 108  | <i>Brama</i> spp.               | 1           |
| 108  | <i>Eopsetta jordani</i>         | 1           |
| 108  | Bothidae                        | 1           |
| 108  | <i>Anoplopoma fimbria</i>       | 1           |
| 108  | Stomiiformes                    | 1           |
| 108  | <i>Zaniolepis</i> spp.          | 1           |

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1952. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

| Rank | Taxon                               | Count |
|------|-------------------------------------|-------|
| 1    | <i>Engraulis mordax</i>             | 64009 |
| 2    | <i>Merluccius productus</i>         | 60244 |
| 3    | <i>Leuroglossus stilbius</i>        | 34531 |
| 4    | <i>Sardinops sagax</i>              | 27860 |
| 5    | <i>Triphoturus mexicanus</i>        | 27482 |
| 6    | <i>Citharichthys</i> spp.           | 26101 |
| 7    | <i>Vinciguerrria lucetia</i>        | 25459 |
| 8    | <i>Trachurus symmetricus</i>        | 22015 |
| 9    | <i>Sebastes</i> spp.                | 21826 |
| 10   | <i>Stenobranchius leucopsarus</i>   | 21333 |
| 11   | <i>Tarletonbeania crenularis</i>    | 6165  |
| 12   | <i>Bathylagus wesethi</i>           | 6020  |
| 13   | <i>Diogenichthys laternatus</i>     | 5592  |
| 14   | <i>Lampanyctus</i> spp.             | 4864  |
| 15   | <i>Cyclothone</i> spp.              | 2718  |
| 16   | Unidentified fish larva             | 2580  |
| 17   | Disintegrated fish larva            | 2465  |
| 18   | <i>Diaphus</i> spp.                 | 2463  |
| 19   | <i>Bathylagus ochotensis</i>        | 2148  |
| 20   | <i>Protomyctophum crockeri</i>      | 1795  |
| 21   | <i>Symbolophorus californiensis</i> | 1438  |
| 22   | Labridae                            | 1338  |
| 23   | Myctophidae                         | 1283  |
| 24   | <i>Prionotus</i> spp.               | 1238  |
| 25   | <i>Melamphaes</i> spp.              | 1041  |
| 26   | <i>Icichthys lockingtoni</i>        | 1022  |
| 27   | <i>Synodus</i> spp.                 | 991   |
| 28   | <i>Scomber japonicus</i>            | 879   |
| 29   | <i>Diogenichthys atlanticus</i>     | 856   |
| 30   | Paralepididae                       | 808   |
| 31   | <i>Symphurus</i> spp.               | 805   |
| 32   | <i>Stomias atriventer</i>           | 603   |
| 32   | Gobiidae                            | 603   |
| 34   | <i>Argentina sialis</i>             | 596   |
| 35   | <i>Ceratoscopelus townsendi</i>     | 589   |
| 36   | <i>Lyopsetta exilis</i>             | 564   |
| 37   | Sciaenidae                          | 494   |
| 38   | Serranidae                          | 468   |
| 39   | <i>Etrumeus acuminatus</i>          | 427   |
| 40   | Ophidiiformes                       | 413   |
| 41   | <i>Peprilus simillimus</i>          | 412   |
| 42   | <i>Paralichthys californicus</i>    | 369   |
| 43   | <i>Pleuronichthys verticalis</i>    | 358   |
| 44   | <i>Chauliodus macouni</i>           | 300   |
| 45   | <i>Nansenia crassa</i>              | 281   |
| 46   | <i>Ophidion scrippsae</i>           | 251   |
| 47   | Cottidae                            | 239   |

TABLE 3. (cont.)

| Rank | Taxon                             | Count |
|------|-----------------------------------|-------|
| 48   | Sternoptychidae                   | 237   |
| 49   | <i>Gonichthys tenuiculus</i>      | 206   |
| 50   | <i>Hypsoblennius</i> spp.         | 205   |
| 51   | Carangidae                        | 203   |
| 52   | Scopelarchidae                    | 195   |
| 53   | <i>Chromis punctipinnis</i>       | 187   |
| 54   | <i>Hygophum atratum</i>           | 184   |
| 55   | <i>Hippoglossina stomata</i>      | 175   |
| 56   | <i>Microstomus pacificus</i>      | 161   |
| 57   | Trachipteridae                    | 157   |
| 58   | <i>Parophrys vetulus</i>          | 155   |
| 59   | <i>Idiacanthus antrostomus</i>    | 149   |
| 60   | <i>Glyptocephalus zachirus</i>    | 147   |
| 61   | <i>Lampadena urophaos</i>         | 143   |
| 62   | Trichiuridae                      | 129   |
| 63   | Chiasmodontidae                   | 128   |
| 64   | <i>Xysteurys liolepis</i>         | 126   |
| 65   | <i>Sphyraena argentea</i>         | 118   |
| 66   | <i>Myctophum nitidulum</i>        | 111   |
| 67   | <i>Sebastolobus</i> spp.          | 108   |
| 68   | <i>Medialuna californiensis</i>   | 98    |
| 68   | <i>Microstoma microstoma</i>      | 98    |
| 70   | <i>Opisthonema</i> spp.           | 95    |
| 70   | <i>Cololabis saira</i>            | 95    |
| 72   | <i>Nansenia candida</i>           | 93    |
| 73   | <i>Brosomphycis marginata</i>     | 92    |
| 74   | Anguilliformes                    | 89    |
| 75   | <i>Hygophum</i> spp.              | 82    |
| 76   | <i>Ichthyococcus</i> spp.         | 78    |
| 77   | <i>Tactostoma macropus</i>        | 77    |
| 78   | <i>Loweina rara</i>               | 70    |
| 79   | <i>Pleuronichthys</i> spp.        | 69    |
| 80   | <i>Tetragonurus cuvieri</i>       | 63    |
| 81   | Scorpaenidae                      | 60    |
| 82   | Pleuronectiformes                 | 55    |
| 83   | <i>Pleuronichthys ritteri</i>     | 52    |
| 84   | <i>Bathylagus pacificus</i>       | 49    |
| 85   | <i>Chilara taylori</i>            | 48    |
| 86   | Cyclopteridae                     | 46    |
| 87   | <i>Hygophum reinhardtii</i>       | 45    |
| 88   | <i>Scorpaenichthys marmoratus</i> | 32    |
| 89   | <i>Aristostomias scintillans</i>  | 30    |
| 90   | <i>Icosteus aenigmaticus</i>      | 22    |
| 91   | <i>Pleuronichthys coenosus</i>    | 21    |
| 92   | <i>Notolychnus valdiviae</i>      | 20    |
| 93   | Macrouridae                       | 19    |
| 94   | <i>Syngnathus</i> spp.            | 18    |
| 95   | <i>Girella nigricans</i>          | 17    |
| 95   | Agonidae                          | 17    |

TABLE 3. (cont.)

| Rank | Taxon                           | Count  |
|------|---------------------------------|--------|
| 97   | Atherinidae                     | 15     |
| 97   | <i>Auxis</i> spp.               | 15     |
| 99   | Clinidae                        | 13     |
| 100  | <i>Electrona rissoi</i>         | 12     |
| 100  | Stomiiformes                    | 12     |
| 100  | <i>Notoscopelus resplendens</i> | 12     |
| 100  | Scombridae                      | 12     |
| 100  | <i>Poromitra</i> spp.           | 12     |
| 105  | <i>Scopelogadus bispinosus</i>  | 11     |
| 106  | <i>Diogenichthys</i> spp.       | 10     |
| 106  | <i>Pleuronichthys decurrens</i> | 10     |
| 108  | Ceratioidei                     | 9      |
| 109  | <i>Eopsetta jordani</i>         | 8      |
| 110  | Gobiesocidae                    | 7      |
| 111  | Exocoetidae                     | 6      |
| 112  | <i>Syacium ovale</i>            | 4      |
| 113  | Carapidae                       | 3      |
| 113  | Gempylidae                      | 3      |
| 113  | <i>Anoplopoma fimbria</i>       | 3      |
| 113  | <i>Diplophos taenia</i>         | 3      |
| 117  | Bothidae                        | 2      |
| 117  | <i>Brama</i> spp.               | 2      |
| 117  | <i>Zaniolepis</i> spp.          | 2      |
| 117  | <i>Ophiodon elongatus</i>       | 2      |
|      | Total                           | 391398 |

TABLE 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1952. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Average number is given for stations occupied more than once during a calendar month. Unoccupied stations are indicated by a dash.

| Anguilliformes      |      |      |      |      |     |      |      |      |       |      |      |
|---------------------|------|------|------|------|-----|------|------|------|-------|------|------|
| STATION             | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP.  | OCT. | NOV. |
| 100.0               | 80.0 | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 107.0               | 35.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0   | 0.0  | 3.1  |
| 113.0               | 50.0 | 0.0  | 3.1  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -     | -    | -    |
| 117.0               | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -     | -    | 2.3  |
| 117.0               | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 7.7  |
| 120.0               | 80.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 123.0               | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.3  |
| 123.0               | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.8  |
| 127.0               | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 2.5  |
| 127.0               | 40.0 | 3.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 127.0               | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 2.5  | 0.0  |
| 130.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 1.3  | 0.0  |
| 130.0               | 60.0 | 0.0  | 1.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 130.0               | 80.0 | 3.2  | -    | -    | -   | -    | -    | -    | -     | -    | -    |
| 133.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 1.8  | 0.0  |
| 137.0               | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.4   | 5.1  | 0.0  |
| 137.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 3.1  | 3.3  |
| 137.0               | 40.0 | 0.0  | 1.4  | 10.3 | 0.0 | 0.0  | 0.0  | -    | -     | -    | -    |
| 137.0               | 50.0 | 0.0  | -    | 0.0  | 2.6 | 0.0  | 0.0  | 0.0  | -     | -    | -    |
| 140.0               | 35.0 | 2.7  | -    | -    | -   | -    | -    | -    | -     | -    | -    |
| Etrumeus acuminatus |      |      |      |      |     |      |      |      |       |      |      |
| STATION             | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP.  | OCT. | NOV. |
| 118.5               | 35.0 | -    | -    | -    | -   | -    | -    | 9.1  | -     | -    | -    |
| 120.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.4  | 0.0   | 3.0  | 0.0  |
| 120.0               | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.8  | 0.0   | 0.0  | 0.0  |
| 121.0               | 30.0 | -    | -    | -    | -   | -    | -    | 6.1  | -     | -    | -    |
| 123.0               | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.8   | 0.0  | 0.0  |
| 123.0               | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 27.5  | 0.0  | 0.0  |
| 127.0               | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 192.6 | 0.0  | 0.0  |
| 130.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 10.2 | 5.0   | 5.0  | 0.0  |
| 133.0               | 25.0 | 28.8 | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0   | 2.6  | 0.0  |
| 133.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 4.0  |
| 137.0               | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 28.7  | 71.4 | 0.0  |
| 137.0               | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 147.0               | 20.0 | 4.1  | -    | -    | -   | -    | -    | -    | -     | -    | -    |

TABLE 4. (cont.)

*Opisthonema* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 127.0 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 20.6 | 0.0  | 0.0  | -    |
| 137.0 23.0 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.6  | 55.8 | 0.0  | 0.0  | -    |

*Sardinops sagax*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-------|-------|------|------|------|------|------|------|
| 85.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -     | 2.9   | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 87.0 35.0  | -    | -    | -    | 0.0  | 0.0   | 0.0   | -    | -    | -    | -    | -    | -    |
| 87.0 50.0  | -    | -    | -    | 0.0  | 1.6   | 0.0   | -    | -    | -    | -    | -    | -    |
| 90.0 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 21.5 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 37.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0   | 38.8  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 35.0  | -    | -    | -    | -    | 3.3   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 9.4   | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 45.0  | -    | -    | -    | -    | 0.0   | 0.0   | 4.6  | -    | -    | -    | -    | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.2  | 5.2   | 92.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | 0.0  | -    | -    | -    | 288.1 | 0.0   | 54.4 | -    | -    | -    | -    | -    |
| 93.0 60.0  | 0.0  | 5.5  | 11.1 | 0.0  | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 3.1  | -     | -     | 0.0  | -    | -    | -    | -    | -    |
| 97.0 35.0  | -    | -    | -    | 0.0  | 3.7   | -     | -    | -    | -    | -    | -    | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.5   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 45.0  | -    | -    | -    | -    | 48.2  | 0.0   | 11.8 | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 20.8 | 2.9   | 1.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 55.0  | -    | -    | -    | -    | 0.0   | 3.1   | 0.0  | -    | -    | -    | -    | -    |
| 97.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.0   | 0.0  | -    | -    | -    | -    | -    |
| 97.0 65.0  | -    | -    | -    | -    | 0.0   | 9.4   | -    | -    | -    | -    | -    | -    |
| 97.0 90.0  | -    | -    | -    | 3.3  | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 100.0 29.0 | 0.0  | -    | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 100.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0   | 5.9   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 45.0 | -    | -    | -    | -    | 4.7   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 100.0 50.0 | -    | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0   | 1.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 50.0 | -    | -    | -    | 0.0  | 2.8   | 0.0   | -    | -    | -    | -    | -    | -    |
| 105.0 50.0 | 0.0  | 0.0  | 10.6 | -    | -     | -     | 0.0  | -    | -    | -    | -    | -    |
| 107.0 35.0 | -    | -    | -    | 0.0  | 190.1 | 0.0   | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 33.0 | 0.0  | 1.4  | -    | 0.0  | 26.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 28.3 | -    |
| 110.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 247.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 33.6  | 3.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 45.0 | -    | -    | -    | -    | 0.0   | 18.3  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 387.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 55.0 | -    | -    | -    | -    | -     | 22.3  | -    | -    | -    | -    | -    | -    |
| 113.0 30.0 | -    | 1.5  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 20.0 | -    |
| 113.0 35.0 | -    | 0.0  | 0.0  | 0.0  | 34.9  | 2.8   | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0 40.0 | -    | 0.0  | 8.3  | 6.8  | 0.0   | 58.1  | 0.0  | 0.0  | 6.5  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Sardinops sagax* (cont.)

| STATION | JAN. | FEB.  | MAR.   | APR.   | MAY   | JUNE  | JULY | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|---------|------|-------|--------|--------|-------|-------|------|-------|-------|------|------|------|
| 113.0   | 45.0 | -     | -      | 0.0    | 5.1   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 113.0   | 50.0 | 0.0   | 101.3  | 0.0    | 0.0   | 7.9   | 0.0  | -     | -     | -    | -    | -    |
| 113.0   | 55.0 | -     | -      | 184.3  | 0.0   | 110.2 | 12.7 | -     | -     | -    | -    | -    |
| 113.0   | 60.0 | 0.0   | 0.0    | 0.0    | 0.0   | 3.3   | 2.7  | -     | -     | -    | -    | -    |
| 117.0   | 26.0 | 0.0   | 5.2    | 0.0    | 3.0   | 0.0   | 3.5  | 0.0   | 0.0   | 3.2  | 3.3  | -    |
| 117.0   | 35.0 | 163.2 | 89.7   | 0.0    | 125.5 | 0.0   | 0.0  | 0.0   | -     | -    | 0.0  | -    |
| 117.0   | 40.0 | 25.5  | 20.8   | 3.0    | 51.5  | 0.0   | 0.0  | 0.0   | 0.0   | 8.5  | 23.1 | -    |
| 117.0   | 45.0 | -     | 0.0    | 9.4    | 4.4   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 117.0   | 50.0 | 3.0   | 64.3   | 0.0    | 52.4  | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 117.0   | 55.0 | -     | 9.7    | 0.0    | 3.6   | 620.5 | 12.8 | -     | -     | -    | -    | -    |
| 117.0   | 60.0 | 0.0   | 16.2   | 7.7    | 0.0   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 117.0   | 65.0 | -     | -      | 50.0   | 0.0   | 3.1   | -    | -     | -     | -    | -    | -    |
| 117.0   | 70.0 | 0.0   | -      | 6.0    | 0.0   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 118.5   | 30.0 | -     | -      | -      | -     | -     | -    | 110.0 | -     | -    | -    | -    |
| 118.5   | 35.0 | -     | -      | -      | -     | -     | -    | 123.8 | -     | -    | -    | -    |
| 119.0   | 33.0 | -     | -      | -      | -     | -     | -    | 411.7 | -     | -    | -    | -    |
| 119.0   | 42.0 | -     | -      | -      | -     | -     | -    | 56.8  | -     | -    | -    | -    |
| 120.0   | 25.0 | 15.3  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0   | 4.0   | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0   | 0.0    | 0.0    | 0.0   | 14.6  | 0.0  | 0.0   | 11.8  | 39.0 | 18.1 | -    |
| 120.0   | 35.0 | 6.3   | 0.0    | 0.0    | 6.0   | 126.6 | 1.6  | 200.5 | 0.0   | 42.1 | 18.4 | -    |
| 120.0   | 37.0 | -     | -      | -      | -     | -     | 0.9  | -     | -     | -    | -    | -    |
| 120.0   | 40.0 | -     | 11.6   | 10.2   | 0.0   | 5.7   | -    | -     | -     | -    | -    | -    |
| 120.0   | 43.0 | -     | -      | -      | -     | -     | -    | 30.4  | -     | -    | -    | -    |
| 120.0   | 45.0 | 58.0  | 7.6    | 385.4  | 445.3 | 36.6  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 84.7  | 0.0    | 103.7  | 15.4  | 118.9 | 0.0  | 3.0   | 0.0   | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -     | 142.1  | 739.9  | 15.6  | 508.6 | 0.0  | -     | 0.0   | 0.0  | -    | -    |
| 120.0   | 60.0 | 0.0   | 14.6   | 37.4   | 2.9   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -     | 11.8   | 0.0    | 2.8   | 0.0   | -    | -     | -     | -    | -    | -    |
| 120.0   | 70.0 | 0.0   | 38.1   | 0.0    | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0   | 1.9    | 0.0    | 0.0   | 0.0   | 0.0  | 157.2 | 0.0   | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -     | -      | -      | -     | -     | -    | 2.0   | -     | -    | -    | -    |
| 121.0   | 34.0 | -     | -      | -      | -     | -     | -    | 3.7   | -     | -    | -    | -    |
| 121.0   | 41.0 | -     | -      | -      | -     | -     | -    | 0.0   | 441.0 | 3.3  | 2.5  | -    |
| 123.0   | 37.0 | 0.0   | 1.6    | 20.7   | 5.2   | 0.0   | 0.0  | 0.0   | 342.7 | 24.3 | 15.2 | -    |
| 123.0   | 40.0 | 14.6  | 16.8   | 54.3   | 109.6 | 18.4  | 0.0  | 0.0   | -     | -    | -    | -    |
| 123.0   | 45.0 | -     | 1332.8 | 2121.4 | 8.2   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 123.0   | 50.0 | 0.0   | 28.3   | 575.3  | 20.6  | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -     | 0.0    | 32.9   | 2.6   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 123.0   | 60.0 | 0.0   | 0.0    | 5.5    | 3.1   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 127.0   | 34.0 | -     | 53.0   | 14.6   | 0.0   | 0.0   | 0.0  | 26.8  | 0.0   | 0.0  | 3.8  | -    |
| 127.0   | 40.0 | 3.0   | 709.9  | 532.1  | 139.3 | 6.4   | 0.0  | 0.0   | 0.0   | 0.0  | -    | -    |
| 127.0   | 45.0 | -     | 999.1  | 335.3  | 441.5 | 87.6  | 0.0  | -     | -     | 7.4  | 0.0  | -    |
| 127.0   | 50.0 | 0.0   | 122.4  | 5.9    | 9.5   | 2.9   | 16.6 | 0.0   | 0.0   | -    | -    | -    |
| 127.0   | 55.0 | -     | 20.7   | 8.8    | 0.0   | 0.0   | -    | -     | -     | -    | -    | -    |
| 127.0   | 60.0 | 0.0   | 1.5    | 0.0    | 6.5   | 0.0   | 0.0  | -     | -     | -    | -    | -    |
| 130.0   | 30.0 | 262.2 | 9.5    | 0.0    | 0.0   | 0.0   | 0.0  | 41.0  | 7.5   | 3.8  | 0.0  | -    |

TABLE 4. (cont.)

*Sardinops sagax* (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 130.0   | 35.0 | 0.0  | 68.5  | 32.8  | 117.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0   | 14.5  | 2.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0   | 22.5  | 181.6 | 6.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 121.0 | 801.3 | 428.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 179.4 | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 20.6  | 63.6  | 53.9  | 2.9  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 164.7 | 603.2 | 8.6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 54.0 | 34.7  | 153.6 | 0.0   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.1  | -    |
| 133.0   | 30.0 | 0.0  | 1.5   | 85.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0   | 90.8  | 7.7   | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 6.8  | 0.0   | 3.0   | 8.0   | 18.1 | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0   | 140.5 | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0  | 1.3   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 39.6 | 4.1   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 40.0 | 7.7  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -     | 0.0   | 0.0   | 23.7 | 0.0  | 0.0  | -    | -    | -    | -    |
| 140.0   | 30.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 35.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 143.0   | 26.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 147.0   | 20.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 147.0   | 25.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 19.0 | -    | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    |

*Engraulis mordax*

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV.  | DEC. |
|---------|------|------|-------|-------|------|------|------|------|------|------|-------|------|
| 40.0    | 60.0 | -    | -     | -     | -    | -    | 10.7 | -    | -    | -    | -     | -    |
| 63.0    | 55.0 | -    | -     | 0.0   | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0   | -    |
| 63.0    | 60.0 | -    | -     | 0.0   | 0.0  | 0.0  | 7.3  | -    | -    | -    | -     | -    |
| 67.0    | 50.0 | -    | -     | 0.0   | 0.0  | 0.0  | -    | 0.0  | 1.6  | -    | 0.0   | -    |
| 67.0    | 55.0 | -    | -     | -     | 0.0  | 0.0  | 0.0  | 18.5 | 0.0  | 0.0  | 0.0   | -    |
| 67.0    | 65.0 | -    | -     | -     | 0.0  | 0.0  | 0.0  | 13.2 | 0.0  | 0.0  | 0.0   | -    |
| 70.0    | 70.0 | -    | -     | 0.0   | 0.0  | 0.0  | 7.8  | 69.3 | 2.4  | 0.0  | 0.0   | -    |
| 70.0    | 80.0 | -    | -     | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0   | -    |
| 77.0    | 60.0 | -    | -     | -     | 0.0  | 0.0  | 6.8  | -    | -    | -    | -     | -    |
| 77.0    | 65.0 | -    | -     | -     | 0.0  | -    | 0.0  | 0.0  | 13.0 | 0.0  | 0.0   | -    |
| 80.0    | 51.0 | 70.4 | 10.4  | 0.0   | 0.0  | 16.9 | 2.0  | 0.0  | 0.0  | 0.0  | 13.8  | -    |
| 80.0    | 55.0 | 56.5 | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 21.5 | 3.0  | 27.3  | -    |
| 80.0    | 60.0 | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 32.0 | 0.0  | 0.0   | -    |
| 80.0    | 65.0 | -    | -     | -     | -    | 0.0  | 10.2 | -    | -    | -    | -     | -    |
| 80.0    | 70.0 | 0.0  | 0.0   | 0.0   | 0.0  | 5.8  | 0.0  | 0.0  | 5.7  | 0.0  | 0.0   | -    |
| 83.0    | 43.0 | -    | -     | -     | 0.0  | 21.7 | -    | -    | -    | -    | -     | -    |
| 83.0    | 55.0 | -    | -     | 5.0   | 6.3  | 0.0  | -    | -    | -    | -    | -     | -    |
| 83.0    | 60.0 | -    | -     | 0.0   | 10.3 | 0.0  | -    | -    | -    | -    | -     | -    |
| 85.0    | 38.0 | 66.1 | 215.8 | 102.4 | -    | -    | 4.8  | 53.6 | 19.0 | 21.5 | 358.4 | -    |



TABLE 4. (cont.)

*Engraulis mordax* (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC. |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 85.0    | 40.0 | 0.0  | 54.6  | 24.3  | -     | -     | 5.3   | 13.1  | 35.0  | 10.1  | 183.6 | -    |
| 85.0    | 45.0 | -    | -     | -     | -     | -     | 11.7  | -     | -     | -     | -     | -    |
| 85.0    | 50.0 | 2.7  | 0.0   | 0.0   | -     | -     | 0.0   | 0.0   | 212.0 | 0.0   | 2.6   | -    |
| 85.0    | 55.0 | -    | -     | -     | -     | -     | 12.8  | -     | -     | -     | -     | -    |
| 85.0    | 60.0 | 47.9 | 0.0   | 0.0   | -     | -     | 0.0   | 0.0   | 0.0   | 3.0   | 0.0   | -    |
| 85.0    | 70.0 | 5.2  | 0.0   | -     | -     | -     | 0.0   | -     | -     | -     | -     | -    |
| 87.0    | 35.0 | -    | -     | 505.4 | 5.9   | 145.1 | -     | -     | -     | -     | -     | -    |
| 87.0    | 40.0 | -    | -     | 9.4   | 0.0   | 0.0   | -     | -     | -     | -     | -     | -    |
| 87.0    | 50.0 | -    | -     | 0.0   | 4.8   | 0.0   | -     | -     | -     | -     | -     | -    |
| 90.0    | 28.0 | 0.0  | 33.5  | 41.2  | 43.3  | 179.8 | 125.8 | 38.4  | 62.6  | 106.9 | 33.2  | -    |
| 90.0    | 30.0 | 36.3 | 38.7  | 0.0   | 4.4   | 5.8   | 939.4 | 5.7   | 69.1  | 0.0   | 101.5 | -    |
| 90.0    | 35.0 | -    | -     | 68.6  | -     | 3.0   | -     | 0.0   | 0.0   | -     | 43.8  | -    |
| 90.0    | 37.0 | 12.3 | 40.3  | 15.5  | 53.6  | 207.8 | 128.6 | -     | -     | -     | -     | -    |
| 90.0    | 39.0 | -    | -     | -     | -     | 3.0   | -     | -     | -     | -     | -     | -    |
| 90.0    | 41.0 | -    | -     | -     | -     | 6.1   | -     | -     | -     | -     | -     | -    |
| 90.0    | 45.0 | 2.4  | 0.0   | 3.3   | 7.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 90.0    | 53.0 | 0.0  | 0.0   | 0.0   | 2.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 93.0    | 27.0 | 46.4 | 6.9   | 14.4  | 238.3 | 171.0 | 0.0   | 30.7  | 14.6  | 31.0  | 67.8  | -    |
| 93.0    | 30.0 | 2.0  | 0.0   | 0.0   | 76.8  | 51.3  | 0.0   | 0.0   | 27.0  | 11.4  | 19.6  | -    |
| 93.0    | 35.0 | -    | -     | -     | 81.8  | 38.6  | 0.0   | -     | -     | -     | -     | -    |
| 93.0    | 40.0 | 0.0  | 14.5  | 3.1   | 16.8  | 3.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 93.0    | 50.0 | 0.0  | 0.0   | 0.0   | 3.2   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 93.0    | 60.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 5.5   | -     | -     | -     | -     | -    |
| 97.0    | 30.0 | 0.0  | 7.5   | 68.0  | 69.7  | 2.9   | 3.9   | 10.1  | 7.9   | -     | 0.0   | -    |
| 97.0    | 32.0 | 0.0  | 0.0   | 19.9  | -     | 42.6  | 10.3  | 0.0   | 161.2 | 0.0   | 0.0   | -    |
| 97.0    | 35.0 | -    | -     | 114.1 | -     | -     | -     | -     | -     | -     | -     | -    |
| 97.0    | 40.0 | 0.0  | 0.0   | 63.0  | 0.0   | 0.0   | 3.0   | 274.6 | 0.0   | 35.1  | 4.8   | -    |
| 97.0    | 50.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 5.9   | 0.0   | -    |
| 100.0   | 29.0 | 18.6 | 99.2  | 59.8  | 138.1 | 1.2   | 0.0   | 0.0   | 28.4  | 27.2  | 8.8   | -    |
| 100.0   | 30.0 | -    | 123.6 | 40.2  | 218.0 | 19.7  | 0.0   | 5.4   | 50.9  | 0.0   | 21.6  | -    |
| 100.0   | 35.0 | -    | -     | -     | -     | 25.1  | 0.0   | -     | -     | -     | -     | -    |
| 100.0   | 40.0 | 0.0  | 8.2   | 22.9  | 38.1  | 10.8  | 0.0   | 0.0   | 0.0   | 0.0   | 3.6   | -    |
| 100.0   | 45.0 | -    | -     | 136.5 | 14.2  | 7.1   | 0.0   | -     | 0.0   | -     | -     | -    |
| 100.0   | 50.0 | -    | 3.0   | 0.0   | 0.0   | 3.2   | 0.0   | 0.0   | 0.0   | 34.7  | 0.0   | -    |
| 100.0   | 60.0 | 0.0  | 0.0   | 0.0   | 11.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 100.0   | 65.0 | -    | -     | -     | 9.7   | 0.0   | -     | -     | -     | -     | -     | -    |
| 103.0   | 30.0 | -    | -     | 120.9 | 26.6  | 0.0   | -     | 73.7  | 33.0  | 0.0   | 14.3  | -    |
| 103.0   | 35.0 | -    | -     | 26.2  | 5.7   | 13.1  | -     | 5.9   | 17.2  | 0.0   | 0.0   | -    |
| 103.0   | 40.0 | -    | -     | 140.4 | 24.0  | 0.0   | -     | 5.5   | 8.6   | 9.2   | 0.0   | -    |
| 103.0   | 45.0 | -    | -     | 14.9  | 4.5   | -     | -     | -     | -     | -     | -     | -    |
| 103.0   | 50.0 | -    | -     | -     | 2.8   | 0.0   | -     | -     | -     | -     | -     | -    |
| 105.0   | 32.0 | 2.3  | 12.6  | -     | -     | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 35.0 | 0.0  | 173.9 | 254.4 | -     | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 40.0 | 0.0  | 2.9   | 0.0   | -     | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 50.0 | 0.0  | 0.0   | 111.3 | -     | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 70.0 | 0.0  | 0.0   | 1.9   | -     | -     | 0.0   | -     | -     | -     | -     | -    |

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

| STATION | JAN. | FEB.  | MAR.   | APR.  | MAY   | JUNE   | JULY  | AUG.  | SEP.   | OCT.   | NOV.  | DEC. |
|---------|------|-------|--------|-------|-------|--------|-------|-------|--------|--------|-------|------|
| 107.0   | 32.0 | -     | -      | 130.8 | 76.7  | 0.0    | -     | 3.0   | 44.6   | 15.6   | 56.9  | -    |
| 107.0   | 35.0 | -     | -      | 23.6  | 34.6  | 0.0    | -     | 0.0   | 14.4   | 0.0    | 227.8 | -    |
| 107.0   | 40.0 | -     | -      | 6.3   | 0.0   | 0.0    | -     | 0.0   | 0.0    | -      | -     | -    |
| 107.0   | 45.0 | -     | -      | -     | 4.4   | 0.0    | -     | -     | -      | -      | -     | -    |
| 110.0   | 33.0 | 17.9  | -      | 44.7  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 0.0    | 157.6 | -    |
| 110.0   | 35.0 | 51.6  | 2.7    | 99.2  | 16.3  | 0.0    | 2.5   | 3.1   | 0.0    | 1.7    | 39.8  | -    |
| 110.0   | 40.0 | 0.0   | 17.5   | 109.6 | 232.4 | 0.0    | 0.0   | 0.0   | 0.0    | 44.0   | 0.0   | -    |
| 110.0   | 50.0 | 3.1   | 17.7   | 20.7  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0    | 2.8    | 0.0   | -    |
| 113.0   | 30.0 | 350.9 | 34.6   | 0.0   | 6.4   | 4.0    | 127.7 | 12.6  | 1812.3 | 0.0    | 13.3  | -    |
| 113.0   | 35.0 | 309.9 | 29.3   | 12.2  | 0.0   | 0.0    | 0.0   | 0.0   | -      | -      | 3.5   | -    |
| 113.0   | 40.0 | 174.0 | 0.0    | 1.4   | 0.0   | 0.0    | 0.0   | 0.0   | 52.3   | 1753.9 | 0.0   | -    |
| 113.0   | 45.0 | -     | -      | 2.9   | 0.0   | 0.0    | 0.0   | -     | -      | -      | -     | -    |
| 113.0   | 50.0 | 5.9   | 0.0    | 22.3  | 0.0   | 0.0    | 0.0   | -     | -      | -      | -     | -    |
| 113.0   | 55.0 | -     | -      | 231.1 | 0.0   | 3.2    | 0.0   | -     | -      | -      | -     | -    |
| 113.0   | 60.0 | 0.0   | 2.7    | 0.0   | 0.0   | 0.0    | 0.0   | -     | -      | -      | -     | -    |
| 115.0   | 26.0 | -     | -      | -     | -     | -      | -     | 45.8  | -      | -      | -     | -    |
| 115.0   | 27.0 | -     | -      | -     | -     | -      | -     | 5.0   | -      | -      | -     | -    |
| 115.0   | 30.0 | -     | -      | -     | -     | -      | -     | 2.6   | -      | -      | -     | -    |
| 115.0   | 35.0 | -     | -      | -     | -     | -      | -     | -     | -      | -      | -     | -    |
| 115.0   | 50.0 | -     | -      | -     | -     | -      | -     | -     | -      | -      | -     | -    |
| 117.0   | 26.0 | 139.5 | 268.3  | 8.3   | 36.2  | 220.7  | 119.7 | 56.3  | 14.0   | 0.0    | 59.2  | -    |
| 117.0   | 30.0 | 165.3 | 72.9   | 8.3   | 40.9  | 6.4    | 0.0   | 18.3  | 288.4  | 51.6   | 30.1  | -    |
| 117.0   | 35.0 | 214.2 | 1267.1 | 6.0   | 0.0   | 7.4    | 46.2  | 11.7  | -      | -      | 287.0 | -    |
| 117.0   | 40.0 | 51.0  | 317.6  | 17.8  | 0.0   | 5.9    | 3.4   | 0.0   | 33.1   | 82.7   | 2.6   | -    |
| 117.0   | 50.0 | 159.3 | 19.4   | 0.0   | 2.6   | 3.3    | 0.0   | -     | -      | -      | -     | -    |
| 117.0   | 55.0 | -     | 16.1   | 3.2   | 0.0   | 0.0    | 0.0   | -     | -      | -      | -     | -    |
| 117.0   | 60.0 | 0.0   | 105.3  | 15.4  | 0.0   | 0.0    | 3.3   | -     | -      | -      | -     | -    |
| 117.0   | 65.0 | -     | -      | 6.8   | 0.0   | 0.0    | -     | -     | -      | -      | -     | -    |
| 117.0   | 70.0 | 0.0   | -      | 4.5   | 0.0   | 0.0    | 3.2   | -     | -      | -      | -     | -    |
| 118.0   | 33.0 | -     | -      | -     | -     | -      | -     | 3.3   | -      | -      | -     | -    |
| 118.0   | 35.0 | -     | -      | -     | -     | -      | -     | 56.6  | -      | -      | -     | -    |
| 118.5   | 25.0 | -     | -      | -     | -     | -      | -     | 117.7 | -      | -      | -     | -    |
| 118.5   | 30.0 | -     | -      | -     | -     | -      | -     | 73.4  | -      | -      | -     | -    |
| 118.5   | 35.0 | -     | -      | -     | -     | -      | -     | 63.4  | -      | -      | -     | -    |
| 119.0   | 33.0 | -     | -      | -     | -     | -      | -     | 464.3 | -      | -      | -     | -    |
| 119.0   | 42.0 | -     | -      | -     | -     | -      | -     | 247.0 | -      | -      | -     | -    |
| 120.0   | 25.0 | 16.8  | 22.1   | 0.0   | 193.0 | 363.4  | 241.7 | 118.5 | 28.1   | 0.0    | 5.3   | -    |
| 120.0   | 30.0 | 238.1 | 218.7  | 5.3   | 480.2 | 1725.4 | 82.8  | 115.4 | 208.8  | 75.0   | 0.0   | -    |
| 120.0   | 35.0 | 392.7 | 400.6  | 61.2  | 326.2 | 2329.4 | 114.5 | 113.1 | 6.6    | 60.8   | 32.6  | -    |
| 120.0   | 37.0 | -     | -      | -     | -     | -      | 47.5  | -     | -      | -      | -     | -    |
| 120.0   | 40.0 | -     | 13.9   | 1.5   | 142.8 | 1130.2 | -     | -     | -      | -      | -     | -    |
| 120.0   | 43.0 | -     | -      | -     | -     | -      | -     | 45.5  | -      | -      | -     | -    |
| 120.0   | 45.0 | 951.4 | 403.9  | 17.0  | 3.3   | 33.5   | 72.8  | 11.1  | 0.0    | 0.0    | 4.6   | -    |
| 120.0   | 50.0 | 8.8   | 3.0    | 9.1   | 0.0   | 0.0    | 0.0   | 0.0   | 3.2    | 2.5    | 0.0   | -    |
| 120.0   | 55.0 | -     | 11.6   | 0.0   | 0.0   | 12.5   | 0.0   | -     | -      | -      | -     | -    |
| 120.0   | 60.0 | 0.0   | 4.0    | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 6.2    | 0.0    | 0.0   | -    |

TABLE 4. (cont.)

*Engraulis mordax* (cont.)

| STATION | JAN. | FEB.  | MAR.  | APR.   | MAY   | JUNE   | JULY  | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|---------|------|-------|-------|--------|-------|--------|-------|-------|-------|------|------|------|
| 120.0   | 65.0 | -     | 8.9   | 0.0    | 0.0   | 0.0    | -     | -     | -     | -    | -    | -    |
| 120.0   | 70.0 | 0.0   | 4.2   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 3.7   | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -     | -     | -      | -     | -      | -     | 640.8 | -     | -    | -    | -    |
| 121.0   | 34.0 | -     | -     | -      | -     | -      | -     | 30.1  | -     | -    | -    | -    |
| 121.0   | 41.0 | -     | -     | -      | -     | -      | -     | 1.8   | -     | -    | -    | -    |
| 121.3   | 26.0 | -     | -     | -      | -     | -      | -     | 12.2  | -     | -    | -    | -    |
| 121.5   | 28.0 | -     | -     | -      | -     | -      | -     | 9.2   | -     | -    | -    | -    |
| 123.0   | 37.0 | 102.5 | 125.0 | 388.5  | 12.9  | 12.2   | 0.0   | 0.0   | 264.6 | 0.0  | 2.5  | -    |
| 123.0   | 40.0 | 1.9   | 324.1 | 7.7    | 131.5 | 181.1  | 22.0  | 0.0   | 110.2 | 13.3 | 0.0  | -    |
| 123.0   | 45.0 | -     | 27.4  | 0.0    | 0.0   | 0.0    | 2.5   | -     | -     | -    | -    | -    |
| 123.0   | 50.0 | 0.0   | 28.1  | 14.1   | 0.0   | 0.0    | 24.6  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 123.0   | 60.0 | 0.0   | 1.4   | 0.0    | 0.0   | 0.0    | 0.0   | -     | -     | -    | -    | -    |
| 127.0   | 34.0 | 85.1  | 142.8 | 70.5   | 20.6  | 271.6  | 0.0   | 20.1  | 185.8 | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | 12.0  | 119.5 | 967.2  | 0.0   | 3.2    | 0.0   | 0.0   | 0.0   | 0.0  | -    | -    |
| 127.0   | 45.0 | -     | 0.0   | 986.0  | 43.8  | 2.9    | 2.9   | -     | -     | -    | -    | -    |
| 127.0   | 50.0 | 0.0   | 0.0   | 0.0    | 3.2   | 0.0    | 6.7   | 0.0   | 0.0   | 2.5  | 0.0  | -    |
| 127.0   | 55.0 | -     | 11.8  | 0.0    | 0.0   | 0.0    | -     | -     | -     | -    | -    | -    |
| 127.0   | 60.0 | 0.0   | 0.0   | 5.7    | 0.0   | 0.0    | 0.0   | -     | -     | -    | -    | -    |
| 130.0   | 30.0 | 36.7  | 249.3 | 2.7    | 0.0   | 302.0  | 15.9  | 0.0   | 2.5   | 5.0  | 0.0  | -    |
| 130.0   | 35.0 | 8.1   | 296.0 | 193.8  | 0.0   | 19.1   | 0.0   | 0.0   | 2.8   | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 83.2  | 858.5 | 78.3   | 13.5  | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -     | 66.2  | 12.8   | 0.0   | 3.0    | 0.0   | 0.0   | -     | -    | -    | -    |
| 130.0   | 50.0 | 0.0   | 49.8  | 881.1  | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -     | 156.0 | -      | -     | -      | -     | -     | -     | -    | -    | -    |
| 130.0   | 55.0 | -     | 97.0  | 2.9    | 0.0   | 0.0    | -     | -     | -     | -    | -    | -    |
| 130.0   | 60.0 | 3.0   | 32.1  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 12.6  | 945.6 | 2642.4 | 334.0 | 4.6    | -     | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 7.4   | 114.5 | 227.2  | 120.0 | 1007.3 | 5.9   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -     | 8.1   | 167.0  | 7.7   | 11.0   | 2.3   | 0.0   | -     | -    | -    | -    |
| 133.0   | 40.0 | 766.1 | 36.8  | 8.9    | 0.0   | 69.2   | 0.0   | -     | -     | -    | -    | -    |
| 133.0   | 45.0 | -     | 0.0   | 2.8    | 0.0   | 0.0    | 0.0   | -     | -     | -    | -    | -    |
| 133.0   | 50.0 | 6.5   | 0.0   | 0.0    | 0.0   | -      | 0.0   | -     | -     | -    | -    | -    |
| 137.0   | 23.0 | 3.1   | 45.9  | 0.0    | 12.3  | 326.4  | 221.5 | 228.0 | 109.9 | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 0.0   | 24.3  | 0.0    | 53.0  | 3859.7 | 42.8  | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 137.0   | 35.0 | -     | -     | 2.6    | 0.0   | 2.3    | 11.2  | -     | -     | -    | -    | -    |
| 137.0   | 40.0 | 56.1  | 360.5 | 154.2  | 0.0   | 33.7   | 4.7   | -     | -     | -    | -    | -    |
| 137.0   | 45.0 | -     | 0.0   | 23.0   | 0.0   | 13.9   | 0.0   | -     | -     | -    | -    | -    |
| 137.0   | 50.0 | 0.0   | -     | 3.0    | 0.0   | 0.0    | 0.0   | 0.0   | -     | -    | -    | -    |
| 140.0   | 30.0 | -     | -     | -      | 0.0   | -      | -     | -     | -     | -    | -    | -    |
| 140.0   | 35.0 | -     | 5.4   | -      | -     | -      | -     | -     | -     | -    | -    | -    |

*Argentina sialis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 85.0    | 38.0 | 0.0  | 6.1  | 9.6  | -   | -    | 0.0  | 0.0  | 0.0  | 2.0  | 5.1  | -    |

TABLE 4. (cont.)

*Argentina sialis* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85.0    | 40.0 | 0.0  | 4.4  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 7.7  | -    |
| 85.0    | 50.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 13.0 | 0.0  | -    |
| 85.0    | 60.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | -    | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 5.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | -    |
| 93.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 30.0 | 4.3  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 100.0   | 29.0 | -    | 1.5  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 100.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 8.2  | 0.0  | 0.0  | -    |
| 103.0   | 35.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 20.7 | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 32.6 | 16.7 | 0.0  | 0.0  | -    |
| 107.0   | 35.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 14.4 | 0.0  | 0.0  | -    |
| 110.0   | 33.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 18.1 | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.4  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0 | 0.0  | 34.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 14.0 | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | -    |
| 115.0   | 30.0 | -    | 0.0  | -    | -    | -    | -    | 5.0  | -    | -    | -    | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.6 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 58.1 | 0.0  | 18.6 | 0.0  | 0.0  | 0.0  | -    | 0.0  | 11.3 | -    |
| 117.0   | 40.0 | 3.2  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | 4.5  | 0.0  | 4.2  | 2.6  | -    |
| 117.0   | 45.0 | -    | 0.0  | 0.0  | 4.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 118.0   | 35.0 | -    | -    | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    |
| 118.5   | 30.0 | -    | -    | -    | -    | -    | -    | 15.7 | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 1.8  | 5.2  | 0.0  | 0.0  | 7.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 4.8  | 0.0  | 0.0  | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 40.0 | -    | 0.0  | 0.0  | 1.3  | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 3.4  | 1.5  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 1.5  | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    |
| 123.0   | 45.0 | -    | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 6.6  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 9.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Microstoma microstoma*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 60.0    | 100.0 | -    | -    | -    | 0.0 | 0.0  | -    | -    | 0.0  | 2.8  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 13.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 50.0  | -    | -    | 1.4  | 0.0 | 0.0  | -    | 0.0  | -    | -    | -    | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 32.0  | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 97.0    | 40.0  | 0.0  | 2.6  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 3.8 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 3.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 3.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 0.0  | 0.0  | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 0.0 | 3.7  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 100.0 | -    | -    | 3.3  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 2.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | -    | 0.0  | -    | -   | -    | 3.2  | -    | -    | -    | -    | -    |
| 107.0   | 45.0  | -    | -    | -    | 2.2 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 60.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | -    | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 113.0   | 50.0  | -    | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 55.0  | -    | -    | 0.0  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 55.0  | -    | 0.0  | 0.0  | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 40.0  | 0.0  | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0  | -    | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 55.0  | -    | 2.8  | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |

*Nansenia candida*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 70.0    | 90.0  | -    | -    | 2.1  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 80.0    | 70.0  | 0.0  | 4.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 80.0  | -    | -    | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 53.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 0.0  | 2.8  | 3.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 12.5 | 2.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 14.7 | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | -    | 16.3 | 3.3  | -    | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 0.0  | 3.0  | 7.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 0.0  | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Nansenia crassa*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 97.0    | 90.0 | -    | -    | 0.0  | 2.8 | 0.0  | 0.0  | -    | 0.0  | -    | -    | -    |
| 100.0   | 60.0 | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 70.0 | -    | -    | 6.4  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 45.0 | -    | -    | -    | 0.0 | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 3.6  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 45.0 | -    | -    | -    | 0.0 | 2.6  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 3.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 3.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 4.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 60.0 | 0.0  | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 0.0  | 6.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 1.5  | 3.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 45.0 | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 0.0  | -    | 0.0  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 5.4  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 120.0   | 70.0 | 0.0  | 4.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 0.0  | 4.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0  | 0.0  | 2.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 40.0 | -    | 0.0  | 0.0  | 0.0 | 6.4  | 3.3  | 2.8  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 5.8  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | -    | 1.6  | 5.9  | 0.0 | 0.0  | 0.0  | 3.0  | 3.3  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 0.0  | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 0.0  | 5.4 | 6.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 2.8  | 0.0  | 8.5 | 0.0  | 5.5  | 0.0  | 3.6  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | 5.9  | 2.6  | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 0.0  | 2.9  | 3.2 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 1.2  | 2.9  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 80.0 | 9.6  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 40.0 | 27.1 | 2.7  | 0.0  | 2.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | 0.0  | 1.4  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 35.0 | -    | -    | 2.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 3.3  | -    | 3.0  | 0.0 | 0.0  | 0.0  | 5.8  | -    | -    | -    | -    |
| 140.0   | 50.0 | 2.7  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Bathylagus ochotensis*

| STATION | JAN.  | FEB. | MAR.  | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|-------|------|-----|------|------|------|------|------|------|------|
| 40.0    | 60.0  | -    | -     | -    | -   | -    | 5.4  | -    | -    | -    | -    | -    |
| 40.0    | 70.0  | -    | -     | -    | -   | -    | 5.9  | -    | -    | -    | -    | -    |
| 50.0    | 50.0  | -    | -     | -    | -   | 16.7 | -    | -    | -    | -    | -    | -    |
| 50.0    | 60.0  | -    | -     | -    | -   | -    | 7.8  | -    | -    | -    | -    | -    |
| 53.0    | 52.0  | -    | -     | -    | -   | 3.4  | -    | -    | -    | -    | -    | -    |
| 53.0    | 55.0  | -    | -     | -    | -   | 15.3 | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 51.0  | -    | -     | -    | -   | 10.3 | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 55.0  | -    | -     | -    | -   | 8.9  | 0.0  | -    | -    | -    | -    | -    |
| 60.0    | 55.0  | -    | -     | 0.0  | -   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.1  | -    |
| 60.0    | 60.0  | -    | 7.9   | 0.0  | -   | 11.8 | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 70.0  | -    | 0.0   | 0.0  | -   | 5.8  | 7.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 80.0  | -    | 3.4   | -    | -   | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 100.0 | -    | -     | 8.3  | -   | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 55.0  | -    | -     | 11.4 | -   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 63.0    | 60.0  | -    | -     | 30.5 | -   | 8.0  | 0.0  | -    | -    | -    | -    | -    |
| 63.0    | 65.0  | -    | -     | 53.4 | -   | 17.4 | 0.0  | -    | -    | -    | -    | -    |
| 67.0    | 50.0  | -    | -     | 4.5  | -   | 8.5  | 0.0  | -    | -    | -    | -    | -    |
| 67.0    | 55.0  | -    | 8.8   | 0.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 67.0    | 65.0  | -    | 105.3 | -    | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | -    |
| 70.0    | 51.0  | -    | -     | 18.8 | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 70.0    | 55.0  | -    | -     | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 70.0    | 60.0  | -    | -     | 0.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 65.0  | -    | -     | 11.4 | -   | 19.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 70.0  | -    | -     | 5.7  | -   | 16.9 | 11.6 | -    | -    | -    | -    | -    |
| 70.0    | 80.0  | -    | -     | 0.0  | -   | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 70.0    | 90.0  | -    | -     | 29.5 | -   | 19.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 100.0 | -    | -     | 6.3  | -   | 2.6  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 50.0  | -    | -     | 8.8  | -   | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    | -    |
| 73.0    | 55.0  | -    | -     | 5.0  | -   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 73.0    | 60.0  | -    | -     | 11.4 | -   | 5.8  | 0.0  | -    | 0.0  | 0.0  | -    | -    |
| 73.0    | 65.0  | -    | -     | 20.8 | -   | -    | 2.5  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0  | -    | -     | 16.2 | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 55.0  | -    | -     | 7.5  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 60.0  | -    | -     | 19.0 | -   | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 65.0  | -    | -     | -    | -   | 8.7  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 70.0  | -    | -     | 17.0 | -   | 19.1 | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 75.0  | -    | 0.0   | 47.7 | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 51.0  | 0.0  | 0.0   | 0.0  | -   | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0  | 0.0  | 0.0   | 5.6  | -   | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | 21.1  | 23.7 | -   | 40.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0  | 0.0  | 53.7  | 5.5  | -   | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0  | 0.0  | 5.4   | 23.7 | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0  | 0.0  | -     | 19.7 | -   | 11.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 90.0  | 5.2  | -     | 10.7 | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 43.0  | -    | -     | 2.5  | -   | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 55.0  | -    | -     | 5.7  | -   | 3.5  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0  | -    | -     | 21.4 | -   | 11.8 | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0  | -    | -     | -    | -   | 10.5 | -    | -    | -    | -    | -    | -    |
| 83.0    | 75.0  | -    | -     | -    | -   | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Bathylagus ochotensis* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 83.0    | 80.0  | -    | -    | 0.0  | 0.0  | 2.1  | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -    | 39.1 | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0  | 0.0  | 3.2  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 40.0  | 0.0  | 2.2  | -    | -    | -    | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 45.0  | -    | -    | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    |
| 85.0    | 50.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 85.0    | 60.0  | 0.0  | 2.1  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 70.0  | 2.6  | 9.6  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 87.0    | 55.0  | -    | -    | -    | 3.1  | 38.1 | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0  | -    | -    | 2.9  | 13.7 | 13.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0  | -    | -    | -    | 6.1  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -    | -    | 0.0  | 17.4 | 22.4 | -    | -    | -    | -    | -    | -    |
| 87.0    | 75.0  | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -    | -    | 0.0  | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    |
| 87.0    | 90.0  | -    | -    | 2.6  | -    | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 4.8  | 4.8  | 7.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0  | 2.5  | 2.7  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 45.0  | 9.6  | 2.8  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0  | 4.6  | 0.0  | 11.7 | 17.5 | 10.5 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 8.5  | 18.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 2.9  | -    | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 0.0  | 1.9  | 12.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 0.0  | 5.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0  | -    | -    | -    | 9.8  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0  | 0.0  | 2.4  | 3.1  | 0.0  | 3.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -    | -    | -    | 6.5  | 0.0  | 4.6  | -    | -    | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 2.6  | 12.5 | 15.9 | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 0.0  | 8.3  | 2.8  | 19.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 8.6  | 3.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 2.8  | 5.7  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 35.0  | -    | -    | -    | 14.7 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0  | -    | -    | -    | -    | 5.7  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 2.6  | 17.3 | 12.6 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -    | -    | -    | 5.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 2.6  | 5.3  | 11.9 | 2.9  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | -    | 0.0  | 9.4  | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 7.7  | 4.1  | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 14.3 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | 0.0  | -    | 6.6  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 35.0  | -    | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0  | 0.0  | 2.7  | -    | -    | 1.5  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |



TABLE 4. (cont.)

*Bathylagus ochotensis* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 100.0   | 50.0  | 0.0  | 0.0  | 26.0 | 0.0 | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0  | 0.0  | 0.0  | 0.0  | 6.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0  | 2.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 3.3  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 1.9  | 0.0 | 0.8  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 3.2  | 2.7 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 50.0  | -    | -    | 0.0  | 2.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 10.6 | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -   | -    | 2.4  | -    | -    | -    | -    | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0 | 3.2  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -    | 3.2  | 0.0 | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 10.8 | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | -    | -   | 6.1  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 0.0  | 0.0 | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -    | 3.1  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 9.3  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 6.6  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 0.0  | 3.0  | 7.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | 3.0  | 0.0  | 1.5  | 3.2 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0   | 40.0  | 0.0  | 0.0  | 12.4 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 50.0  | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0  | 0.0  | 0.0  | 5.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0  | 0.0  | -    | 5.8  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0  | 0.0  | -    | 3.1  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 35.0  | 0.0  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 117.0   | 50.0  | 0.0  | 0.0  | 0.0  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0  | -    | -    | 1.4  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0   | 55.0  | -    | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

*Bathylagus pacificus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 70.0    | 55.0 | -    | -    | 8.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 73.0    | 60.0 | -    | -    | 2.7  | 0.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 55.0 | -    | -    | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 55.0 | -    | -    | 4.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0 | 2.8  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 90.0 | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 60.0 | 0.0  | 2.1  | -    | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 70.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | 0.0  | 0.0 | 1.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -    | -    | 1.4  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Bathylagus pacificus* (cont.)

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 37.0 | 2.5  | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0 60.0 | 0.0  | 5.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Bathylagus wesethi*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 60.0 110.0 | -    | -    | -    | -    | -    | -    | -    | -    | 2.5  | 0.0  | 0.0  | -    |
| 67.0 65.0  | -    | -    | -    | -    | -    | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 5.3  | -    |
| 70.0 100.0 | -    | -    | -    | -    | 2.9  | 2.7  | -    | -    | -    | -    | -    | -    |
| 73.0 60.0  | -    | -    | -    | 0.0  | 3.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 80.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 80.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | 3.0  | 5.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.2 | 0.0  | 0.0  | -    |
| 83.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 35.0 | 0.0  | 3.2  | 0.0  | -    |
| 87.0 70.0  | -    | -    | -    | 4.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 80.0  | -    | -    | -    | 5.7  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 12.1 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 65.0  | -    | -    | -    | 9.3  | 2.7  | 52.1 | 27.1 | 22.8 | 0.0  | 0.0  | 0.0  | -    |
| 90.0 70.0  | 0.0  | 0.0  | -    | -    | 0.0  | 10.1 | -    | -    | -    | -    | -    | -    |
| 90.0 75.0  | -    | -    | 2.8  | 75.0 | -    | 0.0  | 7.7  | 5.5  | 0.0  | 2.7  | 0.0  | -    |
| 90.0 80.0  | 0.0  | 3.1  | 8.0  | 42.1 | 74.3 | -    | 12.6 | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 32.5 | 62.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 29.3 | 71.0 | 19.3 | 20.0 | -    | -    | -    | -    | -    |
| 93.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 2.6  | 3.0  | 0.0  | 0.0  | -    |
| 93.0 45.0  | -    | -    | -    | -    | 0.0  | 0.0  | 27.7 | 5.5  | -    | 0.0  | 0.0  | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 55.0  | -    | -    | -    | -    | 0.0  | 31.5 | 0.0  | -    | -    | -    | -    | -    |
| 93.0 60.0  | 0.0  | 0.0  | 0.0  | 27.7 | 3.3  | 14.6 | 0.0  | -    | -    | -    | -    | -    |
| 93.0 65.0  | -    | -    | -    | -    | 32.6 | 22.8 | -    | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 9.1  | 6.0  | 52.8 | 55.6 | -    | -    | -    | -    | -    |
| 93.0 75.0  | -    | -    | -    | -    | 28.8 | -    | -    | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 78.5 | 16.0 | 30.5 | 73.3 | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 43.0 | -    | -    | 14.6 | -    | -    | -    | -    | -    |
| 97.0 32.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 97.0 40.0  | -    | -    | -    | 0.0  | 0.0  | 2.9  | 27.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 45.0  | -    | -    | -    | -    | 0.0  | 0.0  | 0.0  | 5.5  | 5.7  | 0.0  | 0.0  | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 6.5  | -    | -    | -    | -    | -    |
| 97.0 55.0  | -    | -    | -    | 9.9  | 3.5  | 6.1  | 8.0  | -    | -    | -    | -    | -    |
| 97.0 60.0  | 0.0  | 0.0  | 0.0  | 19.9 | 4.1  | 4.2  | 5.2  | -    | -    | -    | -    | -    |
| 97.0 70.0  | 0.0  | 0.0  | 12.3 | -    | 0.0  | 0.0  | 60.4 | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|-------|------|------|------|------|------|------|
| 97.0    | 75.0  | -    | -    | -    | 23.1 | -     | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 5.7  | 21.9 | 145.4 | 52.4 | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 49.3 | 11.3 | 16.7  | 32.2 | -    | -    | -    | -    | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 1.5   | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 9.3  | 8.9  | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5   | 8.2  | 37.7 | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 9.9   | 16.6 | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 14.1 | 38.4 | 3.0  | 4.5   | 9.0  | 52.9 | 11.3 | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 0.0  | 11.2  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 4.7  | 23.3 | 0.0  | 75.5  | 32.2 | 12.1 | 0.0  | 3.3  | 0.0  | -    |
| 100.0   | 75.0  | -    | -    | -    | 38.8 | -     | -    | -    | -    | -    | -    | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 12.8 | 11.6 | 52.0  | 25.1 | 22.0 | 0.0  | 2.5  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 5.3  | 41.1 | 11.8 | 33.6  | 35.0 | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 29.5 | -    | 0.0   | 5.9  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 0.0  | 0.0  | 0.0   | -    | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0  | 0.0   | -    | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 0.0  | 0.0   | -    | 5.5  | 2.8  | 2.3  | 0.0  | -    |
| 103.0   | 60.0  | -    | -    | 22.1 | 5.9  | 8.4   | -    | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 13.3 | 40.3  | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 47.7 | 22.2 | 18.9  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 4.8  | 14.6  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 3.3  | 4.6  | 22.4  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 31.7 | 22.7 | 5.0   | -    | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 0.0  | 0.0  | -    | -    | -     | 2.7  | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 0.0  | 0.0  | -    | -    | -     | 44.5 | -    | -    | -    | -    | -    |
| 105.0   | 45.0  | -    | -    | -    | -    | -     | 9.8  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 0.0  | -    | -    | -     | 3.3  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -     | 19.4 | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 0.0  | 19.7 | -    | -    | -     | 16.7 | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 3.8  | -    | -    | -     | 63.6 | -    | -    | -    | -    | -    |
| 105.0   | 80.0  | 0.0  | -    | -    | -    | -     | 2.4  | -    | -    | -    | -    | -    |
| 105.0   | 90.0  | 3.0  | -    | -    | -    | -     | 12.0 | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 0.0  | 0.0  | 3.5   | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0  | 6.4   | -    | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 0.0  | 34.1  | -    | 19.5 | 6.1  | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 3.6  | 3.4  | 9.1   | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | -    | -    | 15.1  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 17.4 | 36.0 | 11.9  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0  | -    | -    | -    | -    | 35.9  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0  | -    | -    | 28.4 | 45.1 | 13.5  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -    | 12.3 | 13.5 | 5.9   | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -    | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 2.1  | 0.0  | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.1  | 0.0  | 5.1  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 52.0  | 17.4 | 3.5  | 3.4  | 0.0  | 0.0  | -    |
| 110.0   | 45.0  | -    | -    | -    | 79.0 | 5.2   | -    | -    | 19.9 | -    | -    | -    |
| 110.0   | 50.0  | 0.0  | 26.6 | 0.0  | 3.7  | 14.5  | 5.1  | 3.1  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 110.0   | 55.0 | -    | 9.7  | 28.9 | 38.4 | 48.2  | 35.2 | 10.8 | -    | -    | -    | -    |
| 110.0   | 60.0 | 0.0  | -    | -    | -    | 29.2  | -    | -    | 0.0  | 3.0  | 0.0  | -    |
| 110.0   | 65.0 | -    | -    | -    | -    | 101.0 | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 0.0  | 8.0  | 23.6 | 38.2 | 7.1   | 9.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 3.2  | 18.4 | 52.7  | 25.3 | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 6.9  | 5.4  | 93.8  | 24.2 | -    | -    | -    | -    | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0   | 0.0  | 12.8 | -    | -    | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 2.8  | 4.2  | 21.5 | 0.0   | 6.2  | 25.7 | 0.0  | 10.1 | 0.0  | -    |
| 113.0   | 45.0 | -    | -    | 8.8  | 12.6 | 3.6   | 5.8  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | 5.9  | 15.3 | 6.4  | 12.7 | 7.9   | 7.9  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 6.7  | 34.1 | 22.7  | 5.1  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 0.0  | 16.4 | 1.4  | 22.0 | 107.3 | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 17.9 | 39.4 | 48.5  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 9.1  | 3.2  | 108.4 | 0.0  | -    | -    | -    | -    | -    |
| 115.0   | 35.0 | -    | -    | -    | -    | -     | -    | 2.6  | -    | -    | -    | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 2.3  | -    | -    | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.4  | 3.5  | 0.0  | 4.2  | 0.0  | -    |
| 117.0   | 45.0 | -    | 11.1 | 0.0  | 0.0  | 0.0   | 2.5  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.9  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 0.0  | 0.0  | 18.0 | 0.0   | 4.3  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0  | 0.0  | 0.0  | 2.6  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 0.0  | 0.0  | 31.4  | -    | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 0.0  | -    | 5.9  | 0.0  | 16.6  | 9.7  | -    | -    | -    | -    | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 16.1 | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0  | 9.4   | 21.4 | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 2.7  | 0.0  | 14.3 | 52.0  | 10.5 | 0.0  | 0.0  | 2.0  | 4.8  | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0  | 2.8  | 3.3   | -    | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 11.2 | 15.1 | 17.0 | 10.7  | 34.3 | 59.2 | 3.7  | 0.0  | 6.3  | -    |
| 120.0   | 80.0 | 0.0  | 1.9  | 0.0  | 2.3  | 0.0   | 36.0 | 0.0  | 9.2  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 5.7  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 0.0  | 8.2  | 12.2  | 2.5  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 2.8  | 14.8 | 3.2   | 6.2  | 21.0 | 0.0  | 2.4  | 0.0  | -    |
| 123.0   | 55.0 | -    | 8.3  | 6.0  | 7.8  | 3.5   | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 5.5  | 6.2  | 2.9   | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 45.0 | -    | 5.5  | 0.0  | 0.0  | 5.8   | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | -    | 0.0  | 5.9  | 6.3  | 2.9   | 23.3 | 23.8 | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 0.0  | 6.2   | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 0.0  | 0.0  | 3.2  | 14.4  | 12.4 | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.2   | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 5.8  | 11.5 | 11.7 | 6.4  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 6.4  | 5.4  | 0.0   | 12.4 | -    | -    | -    | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 8.3  | 15.3 | 11.4 | 11.8  | 11.1 | 3.2  | 7.1  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 2.6  | -    | -    | -     | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 2.9  | 20.2 | 6.3  | 0.0   | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Bathylagus wesethi* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.5  | 0.0  | 2.8  | 0.0  | 0.0  | 3.0  | -    |
| 130.0   | 80.0 | 3.2  | -    | 0.0  | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.7 | 6.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 3.1  | 7.4  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | -    | 9.1  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | 2.7  | 17.5 | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0  | 1.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 5.2  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 2.8  | 2.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 5.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 60.0 | 0.0  | 0.0  | 5.3  | -   | -    | -    | -    | -    | -    | -    | -    |

*Leuroglossus stilbius*

| STATION | JAN.  | FEB. | MAR.  | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 60.0    | 70.0  | -    | -     | 0.0   | -     | 5.8  | 2.3  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 90.0  | -    | -     | 0.0   | 0.0   | 0.0  | 6.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 55.0  | -    | -     | 0.0   | 134.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 65.0  | -    | -     | -     | 0.0   | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 67.0    | 50.0  | -    | -     | 1.5   | 0.0   | 0.0  | -    | 0.0  | 0.0  | -    | 0.0  | -    |
| 67.0    | 55.0  | -    | -     | 54.2  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 2.6  | -    |
| 70.0    | 51.0  | -    | -     | -     | -     | -    | 0.0  | 0.0  | 0.0  | -    | 7.6  | -    |
| 70.0    | 55.0  | -    | -     | 24.6  | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 70.0    | 60.0  | -    | -     | 5.7   | 0.0   | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 80.0  | -    | -     | 12.3  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0  | -    | -     | 4.2   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 50.0  | -    | -     | 1.2   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 73.0    | 55.0  | -    | -     | -     | 28.6  | 2.9  | 0.0  | -    | 0.0  | -    | -    | -    |
| 73.0    | 60.0  | -    | -     | 26.9  | 3.0   | -    | 2.5  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0  | -    | -     | 9.0   | 59.4  | 0.0  | 8.1  | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 55.0  | -    | -     | 11.9  | 6.0   | 12.8 | 12.2 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 60.0  | -    | -     | -     | 14.6  | 12.2 | 61.4 | -    | -    | -    | -    | -    |
| 77.0    | 65.0  | -    | -     | -     | 15.9  | -    | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 51.0  | 0.0  | 0.0   | 0.0   | 2.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0  | 0.0  | 45.4  | 68.9  | 8.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0    | 60.0  | 0.0  | 0.0   | 19.7  | 12.0  | 11.6 | 13.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 65.0  | -    | -     | -     | -     | 12.8 | 0.0  | -    | 3.6  | -    | -    | -    |
| 80.0    | 70.0  | 0.0  | 483.1 | 13.7  | 0.0   | 52.4 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 80.0    | 80.0  | 0.0  | 134.5 | 90.1  | 17.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0  | -    | -     | -     | 20.1  | -    | -    | -    | -    | -    | -    | -    |
| 80.0    | 90.0  | 9.0  | -     | 135.4 | 85.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 0.0  | -     | 0.0   | 16.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 43.0  | -    | -     | -     | 53.6  | 30.1 | -    | -    | -    | -    | -    | -    |
| 83.0    | 55.0  | -    | -     | 184.0 | 894.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0  | -    | -     | 82.9  | 108.4 | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

| STATION | JAN. | FEB.  | MAR.   | APR.   | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|-------|--------|--------|-------|-------|------|------|------|------|------|------|
| 83.0    | 65.0 | -     | -      | -      | 11.2  | -     | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -     | -      | 72.8   | 5.8   | 5.9   | -    | -    | -    | -    | -    | -    |
| 83.0    | 75.0 | -     | -      | -      | 0.0   | 10.5  | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0 | -     | -      | 40.8   | 2.7   | 2.1   | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0 | -     | -      | 8.7    | 2.8   | 0.0   | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0 | 357.2 | 2630.4 | -      | -     | -     | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 85.0    | 40.0 | 315.0 | 528.2  | -      | -     | -     | 10.5 | 0.0  | 0.0  | 0.0  | 7.7  | -    |
| 85.0    | 45.0 | -     | -      | -      | -     | -     | 14.6 | -    | -    | -    | -    | -    |
| 85.0    | 50.0 | -     | -      | -      | -     | -     | 20.6 | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 55.0 | -     | -      | -      | -     | -     | 6.4  | -    | -    | -    | -    | -    |
| 85.0    | 60.0 | -     | -      | -      | -     | -     | 0.0  | 0.0  | 2.8  | 0.0  | 2.9  | -    |
| 85.0    | 70.0 | 56.7  | 26.9   | -      | -     | -     | 0.0  | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | 93.1  | 0.0    | -      | -     | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0 | -     | -      | 475.0  | 17.7  | 11.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 45.0 | -     | -      | 180.2  | 27.6  | 36.2  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -     | -      | -      | 42.3  | 7.3   | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -     | -      | 5.4    | 106.5 | 1.6   | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0 | -     | -      | -      | 65.1  | 212.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0 | -     | -      | 249.4  | 13.7  | 79.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -     | -      | -      | 12.3  | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -     | -      | 5.7    | 69.4  | 56.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | -     | -      | 0.0    | 0.0   | 5.8   | -    | -    | -    | -    | -    | -    |
| 90.0    | 30.0 | 67.0  | 10.3   | 269.7  | 33.1  | 67.0  | 11.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 31.0 | 183.2 | 129.1  | 2405.9 | 32.7  | 5.5   | 43.0 | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 90.0    | 35.0 | -     | -      | -      | -     | 6.0   | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | -     | -      | -      | -     | 5.9   | -    | 0.0  | -    | -    | 5.5  | -    |
| 90.0    | 39.0 | -     | -      | 2574.8 | 28.4  | 81.0  | 45.6 | -    | -    | -    | -    | -    |
| 90.0    | 45.0 | -     | -      | -      | -     | 17.8  | -    | -    | -    | -    | -    | -    |
| 90.0    | 53.0 | 0.0   | 28.4   | 549.5  | 30.5  | 77.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0 | 0.0   | 13.5   | 136.2  | 93.4  | 38.8  | 36.2 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 27.4  | 45.1   | 80.3   | 0.0   | 1.4   | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 93.0    | 30.0 | 0.0   | 29.8   | 388.8  | 383.3 | 47.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0 | 33.3  | 450.0  | 407.1  | 451.2 | 29.1  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 93.0    | 40.0 | -     | -      | -      | 222.4 | 106.3 | 6.3  | -    | -    | -    | -    | -    |
| 93.0    | 45.0 | 388.0 | 21.4   | 923.9  | 117.6 | 74.6  | 2.9  | 5.2  | 3.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0 | -     | -      | -      | 110.2 | 28.2  | 9.2  | -    | -    | -    | -    | -    |
| 93.0    | 55.0 | -     | 33.9   | 34.4   | 38.0  | 40.0  | 31.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0 | -     | -      | -      | 148.4 | 17.5  | 18.1 | -    | -    | -    | -    | -    |
| 93.0    | 70.0 | 0.0   | 75.1   | 13.9   | 88.3  | 0.0   | 82.5 | -    | -    | -    | -    | -    |
| 97.0    | 30.0 | 0.0   | 0.0    | 9.1    | 0.0   | 0.0   | 0.0  | -    | -    | -    | 0.0  | -    |
| 97.0    | 32.0 | 0.0   | 1.7    | -      | 13.3  | 1.0   | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 97.0    | 35.0 | 0.0   | 31.3   | 485.6  | -     | 6.1   | 10.3 | 0.0  | 0.0  | 0.0  | -    | -    |
| 97.0    | 36.0 | -     | -      | -      | 419.5 | -     | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0   | 54.6   | 633.6  | 97.7  | 2.8   | -    | -    | -    | -    | 0.0  | -    |
| 97.0    | 45.0 | -     | -      | -      | 48.2  | 10.7  | 9.1  | 0.0  | 0.0  | 3.2  | -    | -    |
| 97.0    | 50.0 | 0.0   | 34.7   | 187.1  | 2.9   | 19.5  | 5.9  | 0.0  | 0.0  | 3.0  | 0.0  | -    |

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

| STATION | JAN.  | FEB. | MAR.  | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 97.0    | 55.0  | -    | -     | -     | 0.0   | 18.4 | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 5.9   | 105.3 | 0.0   | 8.1  | 5.2  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -     | -     | 0.0   | 3.1  | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 8.2   | 2.8   | 7.6   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -     | 59.8  | 0.0   | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | 59.2  | 84.5  | 3.5   | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0  | 0.0  | 179.8 | 67.0  | 0.0   | 9.2  | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -    | -     | -     | -     | 39.4 | 3.1  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 24.5  | 121.9 | 17.8  | 50.7 | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0  | -    | -     | -     | 108.6 | 14.1 | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 21.3  | 770.3 | 9.1   | 5.8  | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -     | -     | 13.9  | 3.3  | 6.6  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | 0.0  | 2.0   | 0.0   | 35.8  | 1.5  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -     | -     | 9.7   | 0.0  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 0.0   | 3.3   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 2.7   | 0.0   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -     | 6.6   | -     | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -     | 67.0  | 0.0   | 7.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 35.0  | -    | -     | 137.8 | 22.8  | 2.3  | -    | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -     | 102.1 | 18.7  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 45.0  | -    | -     | -     | 45.2  | -    | -    | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -     | 106.9 | 79.5  | 8.5  | -    | -    | -    | -    | -    | -    |
| 103.0   | 55.0  | -    | -     | -     | -     | 64.1 | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -     | 3.2   | 3.0   | 2.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -     | 6.3   | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 1.4  | 4.8   | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 11.0 | 15.4  | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 5.7  | 12.3  | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 45.0  | -    | -     | -     | -     | -    | 9.8  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 68.9  | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -     | 105.3 | 8.5   | 0.0  | -    | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 107.0   | 35.0  | -    | -     | 67.8  | 38.9  | 3.2  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -     | 88.2  | 2.5   | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 45.0  | -    | -     | -     | 13.2  | 68.7 | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0  | -    | -     | 10.8  | 27.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -     | 0.0   | 32.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -     | 23.8  | 22.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0  | 10.3 | 76.2  | 189.1 | 74.8  | 10.9 | 10.1 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 137.2 | 205.8 | 154.0 | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 45.0  | -    | -     | -     | 4.9   | 2.6  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0  | 0.0  | 23.6  | 171.7 | 25.9  | 3.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 30.0  | 0.0  | 2.7   | 0.0   | 0.0   | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | 8.9  | 162.3 | 109.9 | 50.7  | 2.8  | 14.1 | 0.0  | 0.0  | 0.0  | 3.5  | -    |
| 113.0   | 40.0  | 6.0  | 2.8   | 97.1  | 0.0   | 3.2  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | -    |
| 113.0   | 45.0  | -    | -     | 26.4  | 7.6   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0  | 0.0  | 291.6 | 6.4   | 31.8  | 3.9  | 2.6  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 113.0   | 55.0 | -    | -    | 73.7 | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 0.0  | 8.2  | 7.0  | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 4.2  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 33.8 | 93.0 | 27.5 | 0.0   | 0.0  | 0.0  | -    | -    | 2.3  | -    |
| 117.0   | 40.0 | 0.0  | 75.0 | 29.7 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | -    | 2.8  | 18.8 | 8.8  | 3.2   | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 0.0  | 40.1 | 17.3 | 21.0 | 13.2  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 35.4 | 3.2  | 28.9 | 3.8   | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0  | 89.1 | 16.9 | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 77.0 | 0.0  | 0.0   | -    | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 0.0  | -    | 29.5 | 0.0  | 3.3   | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 1.2  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 13.0 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 40.0 | -    | 0.0  | 4.4  | 0.0  | 1.9   | -    | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 0.0  | 63.8 | 22.9 | 16.3 | 6.1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 28.9 | 61.0 | 9.3  | 0.0   | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 8.7  | 24.2 | 2.6  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 9.4  | 2.9  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 18.1 | 3.4  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 3.8  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 37.0 | 0.0  | 0.9  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 8.8  | 16.7 | 7.7  | 34.4 | 9.2   | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 27.4 | 67.2 | 0.0  | 15.3  | 2.5  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 26.1 | 45.1 | 0.0  | 0.0   | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0  | 17.9 | 0.0  | 0.0   | -    | 0.0  | -    | -    | -    | -    |
| 123.0   | 60.0 | -    | 3.8  | 7.3  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | -    | 85.7 | 78.3 | 51.8 | 109.1 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 40.0 | -    | 49.7 | 43.2 | 13.5 | 14.6  | 5.8  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 12.7 | 0.0  | 6.3  | 0.0   | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 50.0 | -    | 5.9  | 0.0  | 8.2  | 0.0   | -    | -    | -    | -    | -    | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 3.2  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 2.9  | 3.9  | 24.6 | 26.1 | 3.2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 14.7 | 49.3 | 13.5 | 7.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 51.4 | 5.4  | 6.0   | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 3.1  | 21.5 | 14.2 | 2.9   | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 130.0   | 52.0 | -    | 2.6  | -    | -    | -     | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 0.0  | 95.4 | 6.3  | 0.0   | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 26.1 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 14.4 | 0.0  | 0.0   | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 7.5  | 34.1 | 50.0 | 6.2   | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0  | 8.8  | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | -    | 5.4  | 5.6  | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 24.5 | 0.0  | 0.0  | 0.0   | -    | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | 0.0  | 1.3  | 0.0  | -    | -     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 0.0  | -    | -    | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |



TABLE 4. (cont.)

*Leuroglossus stilbius* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 137.0 35.0 | -    | -    | -    | 21.0 | 7.8 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 40.0 | 0.0  | 0.0  | 0.0  | 41.1 | 2.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 45.0 | -    | -    | 0.0  | 8.6  | 4.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

## Stomiiformes

| STATION   | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.0 75.0 | -    | -    | -    | -    | 11.9 | -    | -    | -    | -    | -    | -    | -    |

*Cyclothone* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 60.0 90.0  | -    | -    | -    | 0.0  | 2.9  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0 110.0 | -    | -    | -    | -    | -    | -    | -    | -    | 0.0  | 2.5  | 0.0  | -    |
| 67.0 65.0  | -    | -    | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 70.0 70.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    |
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 18.2 | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 3.2  | 16.1 | 9.3  | 0.0  | 3.0  | -    |
| 83.0 80.0  | -    | -    | -    | 0.0  | 2.7  | 2.1  | -    | -    | -    | -    | -    | -    |
| 85.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 87.0 70.0  | -    | -    | -    | 5.7  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 80.0  | -    | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 45.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 2.8  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 70.0  | 0.0  | 0.0  | 2.8  | 66.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 75.0  | -    | -    | -    | -    | 14.9 | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0  | 4.9  | 0.0  | 21.2 | 7.9  | 74.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 10.0 | 50.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 5.9  | -    | 16.5 | 22.9 | -    | -    | -    | -    | -    |
| 93.0 27.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 40.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.1 | 0.0  | 4.6  | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 15.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | -    | -    | -    | -    | 0.0  | 0.0  | 6.0  | -    | -    | -    | -    | -    |
| 93.0 65.0  | -    | -    | -    | -    | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 2.8  | 0.0  | 3.0  | 28.2 | 6.2  | -    | -    | -    | -    | -    |
| 93.0 75.0  | -    | -    | -    | -    | 6.4  | -    | -    | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 52.4 | 16.0 | 26.7 | 14.1 | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 52.2 | -    | -    | 5.8  | -    | -    | -    | -    | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 60.0  | 2.3  | 0.0  | 0.0  | 3.3  | 4.1  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Cyclothone* spp. (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 97.0    | 70.0  | 0.0  | 4.1  | 2.8  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 28.9 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 47.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 39.5 | 0.0  | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 100.0   | 30.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 4.3  | 0.0  | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 0.0  | 3.3  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 0.0  | 3.2  | 0.0  | 1.5  | 0.0  | 6.2  | 2.8  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 9.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 1.6  | 9.5  | 16.6 | 0.0  | 6.0  | 0.0  | 8.1  | 13.2 | 13.0 | 0.0  | -    |
| 100.0   | 80.0  | 1.3  | 2.8  | 9.6  | 0.0  | 10.4 | 0.0  | 15.4 | 0.0  | 12.5 | 35.6 | -    |
| 100.0   | 90.0  | 3.5  | 0.0  | 0.0  | 0.0  | 3.7  | 13.5 | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 9.8  | -    | 0.0  | 17.8 | -    | -    | -    | -    | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0  | 1.2  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 60.0  | -    | -    | 9.5  | 5.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 2.7  | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 35.0 | 3.2  | 3.2  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 2.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 0.0  | 0.0  | 29.8 | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 17.0 | 19.8 | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 1.1  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -    | 2.4  | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 2.8  | 28.2 | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 0.0  | -    | -    | -    | 17.3 | -    | -    | -    | -    | -    |
| 105.0   | 80.0  | 0.0  | -    | -    | -    | -    | 2.4  | -    | -    | 5.4  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0   | 45.0  | -    | -    | -    | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 10.4 | 5.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0  | -    | -    | 22.1 | 5.3  | 6.8  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 0.0  | -    |
| 110.0   | 40.0  | 2.9  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.6 | -    |
| 110.0   | 45.0  | -    | -    | -    | 9.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0  | 0.0  | 8.9  | 0.0  | 25.9 | 0.0  | 0.0  | 0.0  | 0.0  | 19.5 | 36.3 | -    |
| 110.0   | 60.0  | -    | 0.0  | 8.7  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0  | -    |
| 110.0   | 65.0  | -    | -    | -    | -    | 15.0 | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0  | 2.8  | 24.1 | 14.8 | 0.0  | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 110.0   | 80.0  | 6.6  | -    | 6.3  | 24.6 | 31.0 | 17.7 | -    | -    | -    | -    | -    |
| 110.0   | 90.0  | 0.0  | -    | 10.4 | 32.6 | 43.5 | 17.6 | -    | -    | -    | -    | -    |
| 113.0   | 30.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 40.0  | -    | 0.0  | 0.0  | 18.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 45.0  | -    | -    | 5.9  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Cyclothone spp. (cont.)*

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 113.0   | 50.0 | 3.0  | 15.3 | 16.0 | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 3.3  | 0.0  | 3.2  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 2.8  | 16.4 | 17.0 | 0.0  | 16.3 | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 1.4  | 6.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 1.5  | 3.2  | 11.7 | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | 0.0  | -    |
| 117.0   | 50.0 | 3.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | 2.8  | 3.2  | 0.0  | 7.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | -    | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 1.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 2.8  | -    | 4.5  | 3.4  | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 120.0   | 50.0 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 2.5  | -    |
| 120.0   | 55.0 | -    | 0.0  | 3.0  | 0.0  | 2.8  | 9.6  | 0.0  | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 12.0 | 0.0  | 5.7  | 6.5  | 5.4  | 0.0  | 0.0  | 25.7 | 4.8  | -    |
| 120.0   | 65.0 | -    | 3.0  | 0.0  | 0.0  | 16.4 | 4.2  | 0.0  | 0.0  | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 15.5 | 9.1  | 6.8  | 0.0  | 6.2  | 0.0  | 0.0  | 8.0  | 0.0  | -    |
| 120.0   | 80.0 | 12.6 | 0.0  | 12.2 | 7.0  | 3.1  | 29.4 | 13.4 | 9.2  | 12.0 | 9.7  | -    |
| 120.0   | 90.0 | 3.5  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 3.4  | 0.0  | 24.4 | 28.9 | -    |
| 123.0   | 40.0 | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 3.1  | 1.5  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 123.0   | 55.0 | -    | 0.0  | 0.0  | 0.0  | 3.5  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 2.8  | 3.1  | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 3.3  | 3.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | 3.0  | 1.6  | 53.1 | 9.5  | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 5.4  | 3.1  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 15.4 | 2.9  | 0.0  | 6.5  | 5.8  | 3.1  | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 19.3 | 0.0  | 2.8  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23.0 | 35.0 | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 16.1 | 0.0  | 3.0  | 14.8 | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 2.8  | 0.0  | 11.4 | 5.9  | 19.4 | 0.0  | 7.1  | 0.0  | 0.0  | -    |
| 130.0   | 55.0 | -    | 5.9  | 5.8  | 0.0  | 5.8  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 2.9  | 2.7  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 3.1  | 4.1  | 12.1 | -    |
| 130.0   | 70.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 80.0 | 6.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 2.5  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 1.6  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 45.0 | -    | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -    | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 60.0 | 0.0  | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Diplophos taenia*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0 60.0 | 0.0  | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Ichthyococcus* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 100.0 70.0 | 0.0  | 0.0  | 2.4  | 3.3  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | -    |
| 107.0 70.0 | -    | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | -    |
| 110.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | -    | -    | -    | -    | -    |
| 110.0 80.0 | 0.0  | 0.0  | -    | 3.2  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 40.0 | -    | 6.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 50.0 | -    | 3.0  | 6.1  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0 55.0 | -    | -    | 0.0  | 0.0  | 3.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0 60.0 | -    | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 6.8  | 0.0  | 0.0  | 2.9  | -    |
| 123.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 55.0 | -    | -    | 0.0  | 3.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0 50.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Vinciguerrria lucetia*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.3 | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 2.5  | 5.7  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 21.4 | 12.2 | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 13.0 | 83.4 | 3.1  | 61.0 | 3.0  | -    |
| 83.0 85.0  | -    | -    | -    | -    | 2.7  | -    | -    | -    | -    | -    | -    | -    |
| 85.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 87.0 55.0  | -    | -    | -    | -    | 0.0  | 5.4  | -    | -    | -    | -    | -    | -    |
| 90.0 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 90.0 37.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 2.7  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 6.8  | 0.0  | -    |
| 90.0 70.0  | 0.0  | 0.0  | 0.0  | 21.0 | -    | 0.0  | 0.0  | 2.7  | 0.0  | 11.0 | 2.7  | -    |
| 90.0 80.0  | 0.0  | 0.0  | 10.6 | 31.6 | 7.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 5.7  | 0.0  | 0.0  | 12.5 | 10.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 2.9  | -    | 11.0 | 45.8 | -    | -    | -    | -    | -    |
| 93.0 30.0  | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.4 | 0.0  | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.2 | 13.2 | 0.0  | -    |
| 93.0 45.0  | -    | -    | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.1 | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY  | AUG. | SEP.  | OCT.  | NOV.  | DEC. |
|---------|-------|------|------|------|------|------|-------|------|-------|-------|-------|------|
| 93.0    | 70.0  | 2.6  | 0.0  | 2.8  | 0.0  | 52.8 | 30.9  | -    | -     | -     | -     | -    |
| 93.0    | 80.0  | -    | -    | 15.0 | 0.0  | 7.6  | 25.4  | -    | -     | -     | -     | -    |
| 93.0    | 90.0  | -    | -    | 6.1  | -    | -    | 35.0  | -    | -     | -     | -     | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 5.9   | 0.0   | -    |
| 97.0    | 60.0  | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | -    | -     | -     | -     | -    |
| 97.0    | 70.0  | 0.0  | 12.3 | 42.8 | 0.0  | 0.0  | 0.0   | -    | -     | -     | -     | -    |
| 97.0    | 75.0  | -    | -    | -    | 2.9  | -    | -     | -    | -     | -     | -     | -    |
| 97.0    | 80.0  | -    | -    | 2.8  | 25.6 | 3.0  | 0.0   | -    | -     | -     | -     | -    |
| 97.0    | 90.0  | -    | -    | 3.3  | 19.7 | 6.7  | 17.6  | -    | -     | -     | -     | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.3  | 8.9   | 0.0   | 0.0   | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 12.6 | 0.0   | 0.0   | 0.0   | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 0.0  | 3.3   | -    | -     | -     | -     | -    |
| 100.0   | 60.0  | -    | 2.4  | 38.4 | 0.0  | 0.0  | 0.0   | 56.0 | 25.5  | 0.0   | 0.0   | -    |
| 100.0   | 65.0  | -    | -    | -    | 4.8  | 0.0  | -     | -    | -     | -     | -     | -    |
| 100.0   | 70.0  | 3.2  | 0.0  | 50.0 | 0.0  | 3.0  | 0.0   | 97.0 | 118.8 | 593.3 | 21.1  | -    |
| 100.0   | 80.0  | 7.8  | 0.0  | 3.2  | 0.0  | 38.2 | 11.2  | 79.2 | 35.4  | 137.5 | 104.9 | -    |
| 100.0   | 90.0  | 8.8  | 0.0  | 56.9 | 3.0  | 7.5  | 37.7  | -    | -     | -     | -     | -    |
| 100.0   | 100.0 | -    | -    | 29.5 | -    | 6.6  | 145.0 | -    | -     | -     | -     | -    |
| 103.0   | 30.0  | -    | -    | 0.0  | 0.0  | 0.0  | -     | 0.0  | 0.0   | 0.0   | 2.4   | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0  | 0.0  | -     | 0.0  | 0.0   | 0.0   | 34.8  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 0.0  | 0.0  | -     | 0.0  | 0.0   | 2.3   | 2.4   | -    |
| 103.0   | 60.0  | -    | -    | 75.6 | 3.0  | 0.0  | -     | -    | -     | -     | -     | -    |
| 103.0   | 65.0  | -    | -    | -    | 29.3 | 3.7  | -     | -    | -     | -     | -     | -    |
| 103.0   | 70.0  | -    | -    | 73.1 | 0.0  | 12.6 | -     | -    | -     | -     | -     | -    |
| 103.0   | 75.0  | -    | -    | -    | 4.8  | 11.6 | -     | -    | -     | -     | -     | -    |
| 103.0   | 80.0  | -    | -    | 6.6  | 2.3  | 82.1 | -     | -    | -     | -     | -     | -    |
| 103.0   | 90.0  | -    | -    | 6.3  | 2.8  | 37.2 | -     | -    | -     | -     | -     | -    |
| 105.0   | 45.0  | -    | -    | -    | -    | -    | 3.3   | -    | -     | -     | -     | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -    | 2.4   | -    | -     | -     | -     | -    |
| 105.0   | 60.0  | 17.0 | 0.0  | -    | -    | -    | 0.0   | -    | -     | -     | -     | -    |
| 105.0   | 70.0  | 0.0  | 0.0  | -    | -    | -    | 66.5  | -    | -     | -     | -     | -    |
| 105.0   | 80.0  | 0.0  | 24.4 | -    | -    | -    | 12.1  | -    | -     | -     | -     | -    |
| 105.0   | 90.0  | -    | -    | -    | -    | -    | 27.1  | -    | -     | -     | -     | -    |
| 107.0   | 32.0  | -    | -    | 0.0  | 0.0  | 0.0  | -     | 5.9  | 0.0   | 11.7  | 0.0   | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0  | 0.0  | -     | 2.8  | 0.0   | 147.9 | 3.1   | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 0.0  | 3.1  | -     | 0.0  | 0.0   | -     | -     | -    |
| 107.0   | 45.0  | -    | -    | -    | 0.0  | 9.8  | -     | -    | -     | -     | -     | -    |
| 107.0   | 50.0  | -    | -    | 0.0  | 0.0  | 3.0  | -     | -    | -     | -     | -     | -    |
| 107.0   | 60.0  | -    | -    | 34.7 | 72.0 | 0.0  | -     | -    | -     | -     | -     | -    |
| 107.0   | 65.0  | -    | -    | -    | -    | 21.5 | -     | -    | -     | -     | -     | -    |
| 107.0   | 70.0  | -    | -    | 56.9 | 26.5 | 20.3 | -     | -    | -     | -     | -     | -    |
| 107.0   | 80.0  | -    | -    | 12.3 | 13.5 | 47.5 | -     | -    | -     | -     | -     | -    |
| 107.0   | 85.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0   | 2.0   | -    |
| 110.0   | 33.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 20.5  | 2.5   | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 107.8 | 282.6 | -    |
| 110.0   | 40.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.4   | -     | -     | -    |
| 110.0   | 45.0  | -    | -    | -    | 59.3 | 0.0  | -     | -    | -     | -     | -     | -    |

TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

| STATION | JAN. | FEB.  | MAR. | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC. |
|---------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 110.0   | 50.0 | 0.0   | 3.0  | 0.0   | 70.3  | 0.0   | 0.0   | 0.0   | 205.2 | 117.2 | 360.0 | -    |
| 110.0   | 55.0 | -     | -    | -     | -     | 11.1  | -     | -     | -     | -     | -     | -    |
| 110.0   | 60.0 | 0.0   | 9.7  | 5.8   | 5.9   | 13.0  | 0.0   | 3.6   | 8.8   | 29.9  | 20.4  | -    |
| 110.0   | 65.0 | -     | -    | -     | -     | 29.9  | -     | -     | -     | -     | -     | -    |
| 110.0   | 70.0 | 6.1   | 53.6 | 17.7  | 6.9   | 42.7  | 47.5  | -     | -     | -     | -     | -    |
| 110.0   | 80.0 | 5.4   | -    | 79.0  | 98.2  | 83.7  | 20.2  | -     | -     | -     | -     | -    |
| 110.0   | 90.0 | 13.0  | 60.4 | 100.3 | 443.4 | 187.6 | 112.2 | -     | -     | -     | -     | -    |
| 113.0   | 35.0 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | -     | -     | 3.5   | -    |
| 113.0   | 40.0 | 0.0   | 5.5  | 0.0   | 0.0   | 0.0   | 9.2   | 3.7   | 3.3   | 0.0   | 0.0   | -    |
| 113.0   | 45.0 | -     | -    | 5.9   | 0.0   | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 113.0   | 50.0 | 0.0   | 15.3 | 25.5  | 9.5   | 3.9   | 0.0   | -     | -     | -     | -     | -    |
| 113.0   | 55.0 | -     | -    | 13.4  | 34.1  | 3.2   | 0.0   | -     | -     | -     | -     | -    |
| 113.0   | 60.0 | 50.4  | 16.4 | 14.2  | 3.1   | 39.0  | 0.0   | -     | -     | -     | -     | -    |
| 113.0   | 65.0 | -     | -    | 12.4  | 6.6   | 19.4  | -     | -     | -     | -     | -     | -    |
| 113.0   | 70.0 | 0.0   | -    | 24.1  | 6.4   | 52.7  | 2.9   | -     | -     | -     | -     | -    |
| 115.0   | 50.0 | 3.1   | -    | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 115.0   | 60.0 | 9.4   | -    | -     | -     | -     | -     | -     | -     | -     | -     | -    |
| 117.0   | 26.0 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 3.5   | 0.0   | 0.0   | 0.0   | 0.0   | -    |
| 117.0   | 30.0 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.5   | 0.0   | 0.0   | -    |
| 117.0   | 40.0 | 0.0   | 0.0  | 0.0   | 0.0   | 0.0   | 2.5   | 0.0   | -     | -     | -     | -    |
| 117.0   | 45.0 | -     | 0.0  | 3.1   | 0.0   | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 117.0   | 50.0 | 3.0   | 0.0  | 0.0   | 2.6   | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 117.0   | 55.0 | -     | 3.2  | 0.0   | 10.8  | 3.8   | 0.0   | -     | -     | -     | -     | -    |
| 117.0   | 65.0 | -     | -    | 8.3   | 3.0   | 18.8  | -     | -     | -     | -     | -     | -    |
| 117.0   | 70.0 | 0.0   | -    | 1.5   | 3.4   | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 120.0   | 35.0 | 2.1   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 4.7   | 0.0   | -    |
| 120.0   | 45.0 | 10.4  | 4.6  | 3.0   | 0.0   | 0.0   | 0.0   | 3.7   | 0.0   | 0.0   | 6.9   | -    |
| 120.0   | 50.0 | 6.3   | 60.1 | 0.0   | 0.0   | 0.0   | 16.1  | 5.9   | 0.0   | 38.1  | 15.1  | -    |
| 120.0   | 55.0 | -     | 0.0  | 0.0   | 0.0   | 0.0   | 8.0   | -     | -     | -     | -     | -    |
| 120.0   | 60.0 | 10.3  | 59.3 | 0.0   | 0.0   | 9.8   | 48.5  | 0.0   | 0.0   | 437.6 | 57.8  | -    |
| 120.0   | 65.0 | -     | 8.9  | 0.0   | 0.0   | 238.7 | -     | -     | -     | -     | -     | -    |
| 120.0   | 70.0 | 25.4  | 15.0 | 0.0   | 0.0   | 21.4  | 87.4  | 7.0   | 7.4   | 246.5 | 28.2  | -    |
| 120.0   | 80.0 | 110.3 | 2.7  | 3.0   | 7.0   | 21.6  | 552.6 | 13.4  | 566.1 | 19.1  | 147.6 | -    |
| 120.0   | 90.0 | 46.0  | 5.5  | 3.0   | 41.0  | 14.9  | 79.0  | 344.4 | 0.0   | 387.4 | 211.0 | -    |
| 123.0   | 37.0 | 7.7   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.6   | 0.0   | -    |
| 123.0   | 40.0 | 0.0   | 0.0  | 0.0   | 3.1   | 0.0   | 5.5   | 0.0   | 0.0   | 4.4   | 3.8   | -    |
| 123.0   | 45.0 | -     | 0.0  | 0.0   | 0.0   | 3.0   | 0.0   | -     | -     | -     | -     | -    |
| 123.0   | 50.0 | 51.8  | 7.3  | 0.0   | 5.9   | 0.0   | 9.2   | 3.0   | 0.0   | 31.2  | 5.7   | -    |
| 123.0   | 55.0 | -     | 11.1 | 3.0   | 0.0   | 3.5   | -     | -     | -     | -     | -     | -    |
| 123.0   | 60.0 | 14.9  | 14.4 | 8.3   | 3.1   | 40.2  | 21.5  | -     | -     | -     | -     | -    |
| 127.0   | 34.0 | 1.5   | 0.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.4   | 7.7   | 0.0   | -    |
| 127.0   | 40.0 | 3.0   | 6.1  | 12.5  | 0.0   | 0.0   | 0.0   | 0.0   | 26.3  | 12.0  | -     | -    |
| 127.0   | 45.0 | -     | 0.0  | 10.0  | 3.4   | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 127.0   | 50.0 | 26.6  | 24.4 | 197.7 | 6.3   | 82.9  | 10.0  | 0.0   | 72.2  | 9.8   | 6.1   | -    |
| 127.0   | 55.0 | -     | 5.9  | 8.8   | 24.5  | 68.6  | -     | -     | -     | -     | -     | -    |
| 127.0   | 60.0 | 148.3 | 75.4 | 34.2  | 38.8  | 46.1  | 791.0 | -     | -     | -     | -     | -    |

TABLE 4. (cont.)

*Vinciguerria lucetia* (cont.)

| STATION | JAN. | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV. | DEC. |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 130.0   | 30.0 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 59.8  | 8.8   | 1.6  | -    |
| 130.0   | 35.0 | 1.6   | 5.8   | 2.7   | 13.0  | 0.0   | 0.0   | 19.3  | 201.5 | 70.8  | 8.4  | -    |
| 130.0   | 40.0 | 65.3  | 49.1  | 336.4 | 0.0   | 0.0   | 63.8  | 143.5 | 236.5 | 109.5 | 36.8 | -    |
| 130.0   | 45.0 | -     | 251.2 | 542.5 | 0.0   | 0.0   | 39.5  | -     | -     | -     | -    | -    |
| 130.0   | 50.0 | 39.4  | 17.2  | 135.1 | 8.5   | 100.0 | 385.0 | 58.3  | 149.5 | 14.2  | 0.0  | -    |
| 130.0   | 52.0 | -     | 15.6  | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 130.0   | 55.0 | -     | 85.3  | 17.3  | 9.5   | 87.0  | -     | -     | -     | -     | -    | -    |
| 130.0   | 60.0 | 0.0   | 42.9  | 2.9   | 20.0  | 423.4 | 167.4 | 5.6   | 47.1  | 12.4  | 69.7 | -    |
| 130.0   | 70.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 130.0   | 80.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 133.0   | 25.0 | 0.0   | 0.0   | 129.6 | 0.0   | 0.0   | -     | 0.0   | 0.0   | 2.6   | 2.1  | -    |
| 133.0   | 30.0 | 2.9   | 4.5   | 176.1 | 0.0   | 6.2   | 0.0   | 0.0   | 0.0   | 0.0   | 4.0  | -    |
| 133.0   | 35.0 | -     | 27.1  | 219.8 | 122.9 | 2.2   | 0.0   | -     | -     | -     | -    | -    |
| 133.0   | 40.0 | 332.2 | 21.4  | 205.6 | 178.2 | 6.0   | 4.2   | -     | -     | -     | -    | -    |
| 133.0   | 45.0 | -     | 32.4  | 283.8 | 30.8  | 18.4  | 39.4  | -     | -     | -     | -    | -    |
| 133.0   | 50.0 | -     | 19.9  | 42.7  | 21.0  | -     | 281.8 | -     | -     | -     | -    | -    |
| 133.0   | 60.0 | 23.9  | 0.0   | 324.1 | -     | -     | -     | -     | -     | -     | -    | -    |
| 137.0   | 23.0 | 4.7   | 5.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.4   | 42.5  | 0.0  | -    |
| 137.0   | 30.0 | 9.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 18.7  | 143.1 | 3.3  | -    |
| 137.0   | 35.0 | -     | -     | 544.4 | 0.0   | 0.0   | 0.0   | -     | -     | -     | -    | -    |
| 137.0   | 40.0 | 79.2  | 66.5  | 472.9 | 0.0   | 10.4  | 0.0   | -     | -     | -     | -    | -    |
| 137.0   | 45.0 | -     | 13.8  | 23.0  | 183.2 | 5.6   | 0.0   | -     | -     | -     | -    | -    |
| 137.0   | 50.0 | 66.0  | -     | 75.0  | 26.0  | 580.2 | 107.1 | 213.9 | -     | -     | -    | -    |
| 137.0   | 60.0 | 6.4   | 35.9  | 109.5 | -     | -     | -     | -     | -     | -     | -    | -    |
| 140.0   | 30.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 140.0   | 35.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 140.0   | 40.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 140.0   | 50.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 143.0   | 26.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 143.0   | 30.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 143.0   | 35.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 147.0   | 20.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 147.0   | 30.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 150.0   | 25.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 150.0   | 30.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 150.0   | 40.0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    |

## Sternoptychidae

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 53.0    | 65.0 | -    | -    | -    | -   | 14.1 | 0.0  | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | 1.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -    | -    | 3.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 2.4  | 0.0  | 0.0  | 0.0 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Sternoptychidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 93.0    | 27.0 | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 93.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 65.0 | 2.4  | -    | -    | 3.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0 | -    | -    | 0.0  | 0.0 | 0.0  | 5.6  | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 65.0 | -    | -    | -    | 0.0 | 3.1  | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0 | -    | -    | 2.8  | 3.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 80.0 | 0.0  | -    | 0.0  | 2.3 | 3.7  | -    | -    | -    | -    | -    | -    |
| 105.0   | 70.0 | 0.0  | 0.0  | -    | -   | -    | 2.9  | -    | -    | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | -    | -   | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0 | -    | -    | -    | -   | 3.6  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | 0.0  | 2.7 | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 0.0  | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 3.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 55.0 | -    | -    | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    |
| 113.0   | 70.0 | -    | -    | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 3.4 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 3.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 7.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 123.0   | 45.0 | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 123.0   | 55.0 | -    | 0.0  | 0.0  | 2.6 | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 127.0   | 40.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 3.4 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 40.0 | 5.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 8.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 55.0 | -    | 2.9  | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 3.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | 0.0  | 2.9  | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 3.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0  | 0.0  | 4.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 2.9  | -    | -    | -    | -    |



TABLE 4. (cont.)

## Sternoptychidae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 137.0 60.0 | 0.0  | -    | 0.0  | 5.3  | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0 40.0 | -    | 6.1  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0 40.0 | -    | 3.0  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Chauliodus macouni*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50.0 60.0  | -    | -    | -    | -    | -    | -    | 2.6  | -    | -    | -    | -    | -    |
| 53.0 65.0  | -    | -    | -    | -    | -    | 0.0  | 5.9  | -    | -    | -    | -    | -    |
| 57.0 65.0  | -    | -    | -    | -    | -    | 0.0  | 6.0  | -    | -    | -    | -    | -    |
| 60.0 60.0  | -    | -    | -    | 0.0  | -    | 0.0  | 0.0  | -    | 0.0  | 0.0  | 3.0  | -    |
| 60.0 65.0  | -    | -    | -    | -    | -    | 6.1  | -    | -    | -    | -    | -    | -    |
| 60.0 80.0  | -    | -    | -    | 0.0  | 2.8  | -    | -    | -    | 0.0  | 2.8  | 0.0  | -    |
| 60.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 12.1 | -    | 3.0  | 2.4  | 0.0  | -    |
| 60.0 100.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | 2.8  | 0.0  | -    |
| 67.0 60.0  | -    | -    | -    | -    | -    | 15.3 | 0.0  | -    | 0.0  | -    | -    | -    |
| 67.0 65.0  | -    | -    | -    | -    | -    | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 60.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 70.0 70.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 70.0 80.0  | -    | -    | -    | 7.4  | 0.0  | 0.0  | 6.2  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 70.0 90.0  | -    | -    | -    | 0.0  | 2.8  | 2.6  | 0.0  | -    | -    | -    | -    | -    |
| 70.0 100.0 | -    | -    | -    | 5.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 73.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 77.0 65.0  | -    | -    | -    | -    | 0.0  | -    | 0.0  | 3.1  | 0.0  | 0.0  | 2.9  | -    |
| 80.0 55.0  | 0.0  | 0.0  | 0.0  | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 60.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 3.6  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 3.3  | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 6.1  | 0.0  | 0.0  | -    |
| 83.0 70.0  | -    | -    | -    | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 80.0  | -    | -    | -    | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0 50.0  | 0.0  | 1.9  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0 80.0  | -    | -    | -    | -    | 0.0  | -    | 10.3 | -    | -    | -    | -    | -    |
| 87.0 35.0  | -    | -    | -    | 0.0  | 0.0  | 1.0  | -    | -    | -    | -    | -    | -    |
| 87.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 5.4  | -    | -    | -    | -    | -    | -    |
| 87.0 60.0  | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 65.0  | -    | -    | -    | -    | 12.3 | -    | -    | -    | -    | -    | -    | -    |
| 90.0 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 0.0  | -    | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 2.6  | -    |
| 93.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | -    | -    | -    | -    | 0.0  | 7.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Chauliodus macouni* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 0.0  | -   | -    | 5.8  | -    | -    | -    | -    | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 3.2  | 1.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 45.0  | -    | -    | -    | 5.4  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 3.2  | 0.0  | 0.0  | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 65.0  | -    | -    | -    | 4.0  | 3.1 | -    | -    | -    | -    | -    | -    | -    |
| 97.0 75.0  | -    | -    | -    | 2.9  | -   | -    | -    | -    | -    | -    | -    | -    |
| 100.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 100.0 45.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 5.5  | -    | -    | -    | -    | -    |
| 100.0 50.0 | -    | 0.0  | 0.0  | 3.3  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 80.0 | -    | -    | -    | 0.0  | 0.0 | 3.7  | -    | -    | -    | -    | -    | -    |
| 105.0 50.0 | 0.0  | 0.0  | 2.7  | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0 55.0 | -    | -    | -    | -    | -   | -    | 2.4  | -    | -    | -    | -    | -    |

*Idiacanthus antrostomus*

| STATION     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 77.0 55.0   | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.5 | -    |
| 80.0 60.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | -    |
| 80.0 70.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.3 | -    |
| 80.0 80.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 11.4 | -    |
| 80.0 100.0  | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 12.0 | -    |
| 90.0 60.0   | 0.0  | 7.5  | 0.0  | 0.0  | 0.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 70.0   | 0.0  | 2.8  | 0.0  | 0.0  | 0.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 75.0   | -    | -    | -    | 3.0  | -   | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0   | 2.5  | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 50.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 2.5  | 0.0  | 0.0  | -    |
| 93.0 70.0   | -    | -    | -    | 0.0  | 0.0 | 0.0  | 5.6  | -    | -    | -    | -    | -    |
| 97.0 50.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 80.0   | -    | -    | -    | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 50.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 65.0  | -    | -    | -    | 0.0  | 0.0 | 3.7  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 8.4  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 100.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 5.4  | -    | -    | -    | -    | -    |
| 100.0 100.0 | -    | -    | -    | 2.3  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 3.7  | -    | -    | -    | -    | -    | -    |
| 107.0 40.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0 60.0  | -    | -    | -    | 0.0  | 0.0 | 3.0  | 0.0  | -    | 0.0  | -    | -    | -    |
| 110.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 110.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |

TABLE 4. (cont.)

*Aristostomias scintillans*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 70.0  | 0.0  | 0.0  | 0.0  | 3.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 11.7 | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 25.0 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 60.0 | 0.0  | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

*Tactostoma macropus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 60.0 110.0 | -    | -    | -    | -    | -   | -    | -    | -    | 5.0  | 0.0  | 0.0  | -    |
| 70.0 100.0 | -    | -    | -    | -    | 0.0 | 5.4  | -    | -    | -    | -    | -    | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 6.1  | 9.1  | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 10.8 | 3.1  | 0.0  | 0.0  | -    |
| 90.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 7.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 3.8  | 2.8  | -    | -    | -    | -    | -    |
| 97.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 9.1  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.7  | -    | -    | -    | -    | -    |

*Stomias atriventer*

| STATION     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 80.0 100.0  | 0.0  | 0.0  | -    | 0.0  | 0.0 | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 60.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 70.0   | 0.0  | 0.0  | 0.0  | 3.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 80.0   | 0.0  | 0.0  | 0.0  | 10.5 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 60.0   | 0.0  | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 32.0   | 0.0  | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 40.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 70.0   | 0.0  | 0.0  | 4.1  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 40.0  | 0.0  | 0.0  | 0.0  | 3.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 50.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 100.0 | -    | 0.0  | 5.3  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 60.0  | -    | -    | -    | 3.3  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 2.8  | -    | -    | -    | -    | -    | -    |
| 105.0 35.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0 | 0.0  | 2.7  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Stomias atriventer* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 105.0   | 80.0 | 6.1  | -    | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 32.0 | -    | -    | 3.2  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 2.6  | -    |
| 110.0   | 60.0 | 2.7  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 12.2 | 0.0  | 0.0  | 3.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 6.3  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 3.2  | -    | 3.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 45.0 | -    | -    | 2.9  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | 0.0  | 3.1  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 8.4  | 2.7  | 2.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 2.7  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | -    | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 45.0 | -    | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 6.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | -    | -    | 2.9  | 0.0 | 3.3  | 3.2  | -    | -    | -    | -    | -    |
| 120.0   | 50.0 | 5.7  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 2.6  | 10.7 | 0.0  | 0.0 | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 120.0   | 65.0 | -    | 3.0  | 5.9  | 5.5 | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    | -    |
| 120.0   | 70.0 | 0.0  | 1.4  | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 1.9  | 0.0  | 0.0 | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 120.0   | 90.0 | 7.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 123.0   | 50.0 | 3.1  | 1.2  | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 123.0   | 55.0 | -    | 2.8  | 9.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 3.0  | 2.7  | 2.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 40.0 | 0.0  | 6.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 3.4 | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    |
| 127.0   | 50.0 | 8.9  | 6.5  | 17.7 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 5.8  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 3.1  | 1.5  | 0.0  | 0.0 | 0.0  | 3.1  | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 19.3 | 5.4 | 3.0  | 2.5  | 0.0  | 8.8  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 8.6  | 21.5 | 0.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 7.8  | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 5.9  | 5.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 2.7  | 2.9  | 0.0 | 5.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    | -    |
| 130.0   | 80.0 | 3.2  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 35.0 | -    | 0.0  | 0.0  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 6.8  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 5.4  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | 9.7  | 0.0  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | 0.0  | 8.8  | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 35.0 | -    | -    | 0.0  | 0.0 | 2.3  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Stomias atriventer* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 137.0 40.0 | 0.0  | 0.0  | 3.1  | 20.6 | 0.0 | 2.6  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 50.0 | 0.0  | 6.6  | -    | 3.0  | 0.0 | 3.0  | 0.0  | 2.9  | -    | -    | -    | -    |
| 137.0 60.0 | 0.0  | -    | 0.0  | 2.7  | -   | -    | -    | -    | -    | -    | -    | -    |

## Paralepididae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 50.0 60.0  | -    | -    | -    | -    | -   | -    | 2.6  | -    | -    | -    | -    | -    |
| 60.0 55.0  | -    | -    | -    | 0.0  | -   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 4.1  | -    |
| 60.0 60.0  | -    | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 0.0  | 3.0  | -    |
| 60.0 70.0  | -    | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 0.0  | 2.9  | -    |
| 60.0 80.0  | -    | -    | -    | 0.0  | 0.0 | -    | -    | -    | 0.0  | 2.8  | 0.0  | -    |
| 60.0 90.0  | -    | -    | -    | 0.0  | 2.9 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0 100.0 | -    | -    | -    | 2.8  | 0.0 | 0.0  | -    | -    | 4.4  | 2.8  | 0.0  | -    |
| 60.0 110.0 | -    | -    | -    | -    | -   | -    | -    | -    | 0.0  | 0.0  | 2.9  | -    |
| 63.0 55.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | -    |
| 67.0 55.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 8.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 67.0 65.0  | -    | -    | -    | -    | -   | 6.3  | 0.0  | 3.3  | 0.0  | 12.4 | 0.0  | -    |
| 70.0 70.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    |
| 70.0 80.0  | -    | -    | -    | 2.5  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 90.0  | -    | -    | -    | 0.0  | 2.8 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 70.0 100.0 | -    | -    | -    | -    | 2.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 73.0 60.0  | -    | -    | -    | 0.0  | 3.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 55.0  | 0.0  | 0.0  | 5.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 60.0  | 0.0  | 0.0  | 4.2  | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 4.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 2.9  | 0.0  | 2.4  | 0.0 | 2.5  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 2.3  | -    | 0.0  | 2.7 | 0.0  | 3.7  | 0.0  | 9.1  | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 5.3  | 0.0 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0 60.0  | -    | -    | -    | 0.0  | 5.2 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 70.0  | -    | -    | -    | 0.0  | 2.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 75.0  | -    | -    | -    | -    | 2.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 80.0  | -    | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 85.0  | -    | -    | -    | -    | 5.4 | -    | -    | -    | -    | -    | -    | -    |
| 83.0 90.0  | -    | -    | -    | 6.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0 38.0  | 0.0  | 0.0  | 3.2  | -    | -   | -    | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 85.0 60.0  | 0.0  | 2.3  | 2.1  | -    | -   | -    | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 85.0 70.0  | 0.0  | -    | 0.0  | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 87.0 55.0  | -    | -    | -    | -    | 3.1 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 70.0  | -    | -    | -    | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 80.0  | -    | -    | -    | 3.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 90.0  | -    | -    | -    | 7.7  | -   | -    | -    | -    | -    | -    | -    | -    |
| 90.0 30.0  | 2.4  | 2.6  | 2.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 45.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 0.0  | -    |

TABLE 4. (cont.)

## Paralepididae (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 5.4  | 0.0  | 3.0  | 0.0  | 2.6  | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 6.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -    | -    | 8.9 | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 0.0  | 0.0  | 4.8 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 10.0 | 2.6 | 5.7  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 2.9  | -   | 2.8  | 2.9  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 93.0    | 40.0  | 0.0  | 2.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 3.1  | 0.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 0.0  | 0.0  | 2.8  | 3.3 | 1.8  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | -    | 3.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 0.0  | 6.0 | 10.6 | 3.1  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | 7.5  | 3.2 | -    | 11.3 | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 0.0  | 0.0 | 0.0  | 5.8  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | -    | -   | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0  | -    | -    | 0.0  | 3.2 | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.7  | 3.3  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 3.3  | 0.0 | 1.6  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | -    | 0.0 | 3.1  | -    | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | 0.0  | 0.0 | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 3.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | 0.0  | 2.9 | -    | 16.0 | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 0.0 | 0.0  | 32.2 | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 100.0   | 35.0  | -    | -    | -    | 0.0 | 1.5  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 0.0  | 7.5  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0  | 2.4  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | 6.2  | 2.8  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 0.0  | 2.4  | 3.3  | 0.0 | 6.0  | 0.0  | 12.1 | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.8  | 8.8  | 3.2  | 5.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 6.3  | 0.0 | 0.0  | 10.8 | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 6.6  | -   | 0.0  | 3.0  | -    | -    | -    | -    | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 103.0   | 65.0  | -    | -    | 0.0  | 0.0 | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 3.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 2.4 | 2.9  | -    | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 0.0  | 0.0  | -    | -   | -    | 3.2  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 0.0  | -    | -   | -    | 3.3  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -   | -    | 2.4  | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 0.0  | 2.8  | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 0.0  | -    | -   | -    | 46.2 | -    | -    | -    | -    | -    |
| 105.0   | 80.0  | 0.0  | 0.0  | -    | -   | -    | 2.4  | -    | -    | 0.0  | 1.6  | -    |
| 107.0   | 32.0  | 3.0  | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | 0.0  | 0.0 | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 0.0  | 0.0 | 7.2  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0  | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Paralepididae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 107.0 70.0 | -    | -    | -    | 6.3  | 0.0 | 3.4  | -    | -    | -    | -    | -    | -    |
| 107.0 80.0 | -    | -    | -    | 3.1  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 40.0 | 2.9  | 0.0  | 5.8  | 0.0  | 0.0 | 0.0  | 2.5  | 3.5  | 3.4  | 0.0  | 0.0  | -    |
| 110.0 50.0 | 0.0  | 0.0  | 5.9  | 0.0  | 3.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 7.2  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 65.0 | -    | -    | -    | -    | -   | 7.5  | -    | -    | -    | -    | -    | -    |
| 110.0 70.0 | 0.0  | 0.0  | 5.4  | 3.0  | 0.0 | 7.1  | 2.3  | -    | -    | -    | -    | -    |
| 110.0 80.0 | 0.0  | 0.0  | -    | 3.2  | 0.0 | 12.4 | 0.0  | -    | -    | -    | -    | -    |
| 110.0 90.0 | 0.0  | 3.2  | -    | 0.0  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 30.0 | -    | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 35.0 | -    | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0 45.0 | -    | -    | -    | 2.9  | 0.0 | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 113.0 50.0 | -    | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 55.0 | -    | -    | -    | 3.3  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 60.0 | -    | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 65.0 | -    | -    | -    | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0 70.0 | -    | 0.0  | -    | 0.0  | 3.2 | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    |
| 117.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 45.0 | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 60.0 | 0.0  | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | -    |
| 120.0 70.0 | 0.0  | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | 0.0  | -    |
| 120.0 80.0 | 0.0  | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 55.0 | -    | -    | 5.5  | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    |
| 137.0 50.0 | 0.0  | 0.0  | -    | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |

## Scopelarchidae

| STATION     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 87.0 80.0   | -    | -    | -    | 0.0  | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 90.0 60.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 100.0  | -    | -    | -    | 0.0  | -   | 2.8  | 2.9  | -    | -    | -    | -    | -    |
| 93.0 80.0   | -    | -    | -    | 0.0  | 0.0 | 0.0  | 2.8  | -    | -    | -    | -    | -    |
| 97.0 90.0   | -    | -    | -    | 0.0  | 0.0 | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 100.0 50.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 3.0  | -    |
| 100.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.7  | 0.0  | 0.0  | -    | -    | -    |
| 100.0 100.0 | -    | -    | -    | 0.0  | -   | 3.3  | 3.0  | -    | -    | -    | -    | -    |
| 103.0 70.0  | -    | -    | -    | 0.0  | 0.0 | 3.2  | -    | -    | -    | -    | -    | -    |
| 103.0 75.0  | -    | -    | -    | -    | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 105.0 70.0  | 0.0  | 0.0  | 0.0  | -    | -   | -    | 5.8  | -    | -    | -    | -    | -    |
| 105.0 90.0  | -    | -    | -    | -    | -   | 0.0  | 3.0  | -    | -    | -    | -    | -    |
| 107.0 60.0  | -    | -    | -    | 0.0  | 2.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0 65.0  | -    | -    | -    | -    | -   | 3.6  | -    | -    | -    | -    | -    | -    |
| 107.0 70.0  | -    | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Scopelarchidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 107.0   | 80.0 | -    | -    | 0.0  | 5.4 | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 60.0 | -    | 0.0  | 0.0  | 5.9 | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 80.0 | 0.0  | -    | 0.0  | 6.1 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 0.0  | 5.4 | 3.3  | 2.2  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 0.0  | 6.2 | 6.5  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | -    | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 0.0  | 0.0 | 3.2  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | -    | 0.0  | 0.0  | 0.0 | 5.9  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 55.0 | -    | 3.2  | 0.0  | 0.0 | 3.1  | 2.7  | 0.0  | -    | -    | -    | -    |
| 120.0   | 60.0 | -    | 0.0  | 0.0  | 0.0 | 9.8  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0  | 0.0 | 3.3  | -    | -    | -    | -    | -    | -    |
| 120.0   | 80.0 | 0.0  | 0.0  | 0.0  | 2.3 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 7.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0  | 3.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | -    | -    | -    | -    | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 3.1  | -    | -    | -    | -    | -    | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.6  | 0.0  | -    | -    | -    | -    | -    |

## Myctophidae

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0    | 70.0  | -    | -    | -    | -   | -    | 5.9  | -    | -    | -    | -    | -    |
| 50.0    | 60.0  | -    | -    | -    | -   | -    | 2.6  | -    | -    | -    | -    | -    |
| 57.0    | 55.0  | -    | -    | -    | -   | 0.0  | 4.4  | -    | -    | -    | -    | -    |
| 60.0    | 70.0  | -    | -    | -    | -   | 0.0  | 2.3  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 80.0  | -    | -    | 0.0  | 5.5 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 90.0  | -    | -    | 0.0  | 2.9 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 52.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | -    |
| 67.0    | 65.0  | -    | -    | -    | -   | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 60.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | -    |
| 73.0    | 55.0  | -    | -    | -    | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 55.0  | -    | -    | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0  | 0.0  | 0.0  | 0.0  | 4.9 | 0.0  | 0.0  | 0.0  | 3.0  | 2.5  | 0.0  | -    |
| 80.0    | 90.0  | 0.0  | -    | 0.0  | 2.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 70.0  | -    | -    | 0.0  | 2.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -    | 0.0  | 0.0 | 2.8  | -    | -    | -    | -    | -    | -    |
| 85.0    | 60.0  | 0.0  | 0.0  | -    | 0.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 90.0  | -    | 9.5  | -    | -   | -    | 0.0  | 0.0  | -    | -    | -    | -    |
| 85.0    | 90.0  | -    | -    | -    | -   | -    | 6.5  | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Myctophidae (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 87.0    | 35.0  | -    | -    | 0.0  | 0.0  | 1.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0  | -    | -    | 0.0  | 1.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0  | -    | -    | -    | 6.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 4.8  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 65.0  | -    | -    | -    | 0.0  | 10.1 | -    | -    | -    | -    | -    | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 9.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 0.0  | 5.3  | 4.8  | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 15.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 11.7 | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 93.0    | 35.0  | -    | -    | -    | 3.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 15.7 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | -    | 12.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 0.0  | 0.0  | 3.8  | 28.2 | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 3.2  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 9.9  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 5.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 0.0  | 0.0  | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 100.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 11.9 | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 45.0  | -    | -    | -    | 4.7  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 3.3  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 0.0  | 3.7  | -    | -    | -    | -    | -    | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 6.4  | 0.0  | 3.5  | 11.2 | 2.2  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.9 | 2.7  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | -    | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 0.0  | 0.0  | 1.6  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 3.2  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 50.0  | -    | -    | 11.9 | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 3.2  | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 2.4  | 2.9  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 3.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 6.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -    | 7.3  | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | -    | -    | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 2.8  | -    | -    | -    | 11.6 | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 8.6  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Myctophidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 107.0   | 40.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 3.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | -    | 0.0  | 18.2 | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0 | -    | -    | -    | -    | 3.6  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | -    | 2.7  | 5.9  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | -    |
| 110.0   | 45.0 | -    | -    | -    | 9.9  | 2.6  | -    | -    | -    | -    | -    | -    |
| 110.0   | 55.0 | -    | -    | -    | -    | 11.1 | -    | -    | -    | -    | -    | -    |
| 110.0   | 60.0 | -    | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 9.2  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 20.8 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 30.0 | -    | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 40.0 | -    | 1.5  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 55.0 | -    | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 1.7  | -    | -    | -    | -    |
| 117.0   | 70.0 | -    | -    | 4.5  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 14.4 | 0.0  | 0.0  | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0  | 0.0  | 6.5  | -    | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 13.4 | 6.1  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 0.0  | 4.1  | 6.1  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 6.2  | 0.0  | 16.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 123.0   | 55.0 | -    | 8.3  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 40.0 | -    | 0.0  | 0.0  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | -    | -    | 10.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 55.0 | -    | -    | -    | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.0 | 3.8  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 5.5  | 0.0  | 12.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 2.9  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 2.8  | 12.8 | 5.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 5.5  | 3.1  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 2.6  | -    | 0.0  | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 0.0  | 5.8  | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 2.9  | 12.6 | 11.2 | 0.0  | 0.0  | 4.1  | 0.0  | -    |
| 130.0   | 70.0 | 5.8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 80.0 | 6.4  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 25.0 | 0.0  | 1.2  | 67.2 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Myctophidae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 39.8 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0 35.0 | -    | -    | 0.0  | 8.8  | 7.7 | 4.4  | 0.0  | -    | -    | -    | -    | -    |
| 133.0 40.0 | 0.0  | 5.7  | 0.0  | 6.0  | 5.3 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0 45.0 | -    | -    | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0 50.0 | 0.0  | -    | 2.7  | 0.0  | 0.0 | -    | 6.1  | -    | -    | -    | -    | -    |
| 133.0 60.0 | 20.5 | -    | 5.4  | 52.6 | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0 35.0 | -    | -    | -    | 60.5 | 0.0 | 0.0  | 2.2  | -    | -    | -    | -    | -    |
| 137.0 40.0 | 0.0  | 0.0  | 0.0  | 10.3 | 2.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 45.0 | -    | -    | 5.5  | 2.9  | 4.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 50.0 | 0.0  | 0.0  | -    | 3.0  | 0.0 | 5.9  | 0.0  | 0.0  | -    | -    | -    | -    |
| 137.0 60.0 | 0.0  | -    | 2.8  | 5.3  | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0 40.0 | -    | 6.1  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 143.0 30.0 | -    | 5.7  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0 40.0 | -    | 3.0  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

## Ceratoscopelus townsendi

| STATION     | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.0 80.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.0  | 0.0  | -    |
| 80.0 100.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 40.4 | 12.4 | 0.0  | 3.0  | -    |
| 87.0 70.0   | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 80.0   | -    | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 60.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 70.0   | 0.0  | 2.8  | 0.0  | 9.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 75.0   | -    | -    | 0.0  | -    | 17.8 | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0   | 0.0  | 0.0  | 5.3  | 0.0  | 7.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0   | 2.8  | 0.0  | 0.0  | 2.5  | 2.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 100.0  | -    | -    | -    | 8.8  | -    | 5.5  | 8.6  | -    | -    | -    | -    | -    |
| 93.0 70.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.6 | 0.0  | -    | -    | -    | -    | -    |
| 97.0 55.0   | -    | -    | -    | -    | 0.0  | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 70.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 75.0   | -    | -    | -    | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    | -    |
| 97.0 80.0   | -    | -    | -    | 0.0  | 0.0  | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 100.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 0.0  | 0.0  | -    |
| 100.0 70.0  | 0.0  | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.3 | 0.0  | -    |
| 100.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.9  | 16.7 | 0.0  | 0.0  | 0.0  | 39.6 | -    |
| 100.0 90.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 2.2  | 3.2  | 0.0  | -    | -    |
| 100.0 100.0 | -    | -    | -    | 0.0  | -    | 0.0  | 20.7 | -    | -    | -    | -    | -    |
| 103.0 70.0  | -    | -    | -    | 9.5  | 0.0  | 3.2  | -    | -    | -    | -    | -    | -    |
| 103.0 75.0  | -    | -    | -    | -    | 2.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 9.9  | -    | -    | -    | -    | -    | -    |
| 105.0 70.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 26.0 | -    | -    | -    | -    | -    |
| 107.0 80.0  | -    | -    | -    | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.6  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Ceratoscopelus townsendi* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 110.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 3.2  | 30.7 | 3.1  | 2.5  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 0.0  | 27.2 | 3.3  | 4.4  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 50.0 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.9  | 2.4  | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0  | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 3.1  | -    |
| 120.0   | 80.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | -    |
| 120.0   | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.2  | 10.2 | 0.0  | 9.1  | 20.2 | -    |
| 123.0   | 40.0 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 60.0 | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 55.0 | -    | 0.0  | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 80.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -    | 6.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 60.0 | -    | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    | -    | -    |

*Diaphus* spp.

| STATION | JAN.  | FEB. | MAR. | APR. | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| 40.0    | 60.0  | -    | -    | -    | -     | -    | 5.4  | -    | -    | -    | -    | -    |
| 40.0    | 70.0  | -    | -    | -    | -     | -    | 95.0 | -    | -    | -    | -    | -    |
| 40.0    | 90.0  | -    | -    | -    | -     | -    | 12.3 | -    | -    | -    | -    | -    |
| 47.0    | 60.0  | -    | -    | -    | -     | -    | 6.4  | -    | -    | -    | -    | -    |
| 50.0    | 55.0  | -    | -    | -    | -     | -    | 24.6 | -    | -    | -    | -    | -    |
| 50.0    | 60.0  | -    | -    | -    | -     | -    | 23.3 | -    | -    | -    | -    | -    |
| 50.0    | 70.0  | -    | -    | -    | -     | -    | 44.0 | -    | -    | -    | -    | -    |
| 53.0    | 60.0  | -    | -    | -    | -     | -    | 17.3 | -    | -    | -    | -    | -    |
| 53.0    | 65.0  | -    | -    | -    | -     | 0.0  | 76.4 | -    | -    | -    | -    | -    |
| 60.0    | 80.0  | -    | -    | 0.0  | 157.9 | -    | -    | -    | 13.0 | 0.0  | 0.0  | -    |
| 60.0    | 90.0  | -    | -    | 0.0  | 5.8   | 39.6 | 6.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 100.0 | -    | -    | -    | 0.0   | 6.4  | -    | -    | 2.2  | 0.0  | 0.0  | -    |
| 60.0    | 110.0 | -    | -    | -    | -     | -    | -    | -    | 0.0  | 2.5  | 0.0  | -    |
| 63.0    | 55.0  | -    | -    | 0.0  | 0.0   | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 60.0  | -    | -    | 0.0  | 0.0   | 0.0  | 7.3  | -    | -    | -    | -    | -    |
| 63.0    | 65.0  | -    | -    | 0.0  | 0.0   | 0.0  | 10.6 | -    | -    | -    | -    | -    |
| 67.0    | 60.0  | -    | -    | -    | -     | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 67.0    | 65.0  | -    | -    | -    | -     | 0.0  | 39.1 | 9.9  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 60.0  | -    | -    | 0.0  | 0.0   | 0.0  | 54.9 | 23.7 | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 65.0  | -    | -    | -    | 0.0   | 5.6  | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 70.0  | -    | -    | 0.0  | 45.5  | 12.6 | 38.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Diaphus* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY  | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 70.0 75.0  | -    | -    | -    | -    | -    | 12.4 | -     | -    | -    | -    | -    | -    |
| 70.0 80.0  | -    | -    | -    | 0.0  | 0.0  | 31.9 | 43.4  | 5.2  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 90.0  | -    | -    | -    | 0.0  | 11.2 | 0.0  | 3.2   | -    | -    | -    | -    | -    |
| 70.0 100.0 | -    | -    | -    | -    | 5.9  | 0.0  | -     | -    | -    | -    | -    | -    |
| 73.0 60.0  | -    | -    | -    | 0.0  | 0.0  | -    | 5.1   | 21.9 | 0.0  | 0.0  | -    | -    |
| 77.0 50.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 5.4   | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 12.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0 65.0  | -    | -    | -    | 0.0  | 0.0  | -    | 13.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 19.7 | 0.0  | 0.0  | 0.0  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 49.6  | 11.8 | 5.7  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 37.0 | 3.0  | 0.0  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 2.7  | 7.5   | 0.0  | 33.4 | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0   | 18.8 | 12.4 | 0.0  | 0.0  | -    |
| 83.0 60.0  | -    | 0.0  | -    | 0.0  | 0.0  | 3.5  | -     | -    | -    | -    | -    | -    |
| 85.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0   | 0.0  | 2.8  | 9.0  | 0.0  | -    |
| 85.0 80.0  | -    | -    | -    | -    | -    | -    | 7.7   | -    | -    | -    | -    | -    |
| 85.0 90.0  | -    | -    | -    | -    | -    | -    | 32.4  | -    | -    | -    | -    | -    |
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 5.1  | 0.0  | 0.0  | -    |
| 90.0 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 2.7   | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 5.8  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 3.3  | 48.8  | 2.8  | 32.9 | 2.3  | 2.6  | -    |
| 90.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 6.3  | 5.1   | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2   | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.6  | 0.0   | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 0.0  | -    | 8.3  | 22.9  | -    | -    | -    | -    | -    |
| 93.0 27.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.6  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 45.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 4.6   | -    | 0.0  | -    | 0.0  | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 2.5  | 0.0  | -    | -    |
| 93.0 65.0  | -    | -    | -    | 0.0  | 6.5  | 19.6 | -     | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 7.0  | 0.0   | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 0.0  | 6.4  | 3.8  | 5.6   | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 0.0  | -    | -    | 14.6  | -    | -    | -    | -    | -    |
| 97.0 32.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0   | 7.6  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 36.0  | -    | -    | -    | -    | -    | 2.8  | -     | -    | -    | -    | -    | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 42.7  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 45.0  | -    | -    | -    | -    | 0.0  | 0.0  | 5.9   | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 58.9  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 97.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 22.0 | 42.9  | -    | -    | -    | -    | -    |
| 97.0 65.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | -     | -    | -    | -    | -    | -    |
| 97.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 3.2  | 44.5  | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | 0.0  | 0.0  | 27.3 | 330.6 | -    | -    | -    | -    | -    |
| 97.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 5.9   | -    | -    | -    | -    | -    |
| 100.0 35.0 | -    | -    | -    | 0.0  | -    | 1.5  | 0.0   | -    | -    | -    | -    | -    |
| 100.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3   | 2.3  | 26.7 | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Diaphus* spp. (cont.)

| STATION     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 100.0 50.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 20.1 | 0.0  | 0.0  | 0.0  | -    |
| 100.0 55.0  | -    | -    | -    | -    | 0.0 | 0.0  | 6.6  | -    | -    | -    | -    | -    |
| 100.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 4.6  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 65.0  | -    | -    | -    | -    | 0.0 | 14.9 | -    | -    | -    | -    | -    | -    |
| 100.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 9.1  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3 | 0.0  | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.7  | 32.3 | -    | -    | -    | -    | -    |
| 100.0 100.0 | -    | -    | -    | 3.3  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 35.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 40.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 2.8  | 2.3  | 0.0  | -    |
| 103.0 45.0  | -    | -    | -    | -    | 4.5 | -    | -    | -    | -    | -    | -    | -    |
| 103.0 50.0  | -    | -    | -    | 0.0  | 2.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 60.0  | -    | -    | -    | 0.0  | 5.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 65.0  | -    | -    | -    | -    | 0.0 | 22.0 | -    | -    | -    | -    | -    | -    |
| 103.0 90.0  | -    | -    | -    | 0.0  | 5.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0 40.0  | 0.0  | 0.0  | 0.0  | -    | -   | -    | 12.7 | -    | -    | -    | -    | -    |
| 105.0 55.0  | -    | -    | -    | -    | -   | -    | 24.3 | -    | -    | -    | -    | -    |
| 105.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -   | -    | 11.1 | -    | -    | -    | -    | -    |
| 107.0 32.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 107.0 35.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.7  | 0.0  | -    |
| 107.0 45.0  | -    | -    | -    | 0.0  | 0.0 | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0 50.0  | -    | -    | -    | 0.0  | 0.0 | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0 55.0  | -    | -    | -    | -    | -   | 14.9 | -    | -    | -    | -    | -    | -    |
| 107.0 60.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0 80.0  | -    | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 35.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 110.0 55.0  | -    | -    | -    | -    | -   | 7.4  | -    | -    | -    | -    | -    | -    |
| 110.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 40.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.7  | 3.3  | 0.0  | 0.0  | -    |
| 113.0 45.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 5.8  | -    | -    | -    | -    | -    |
| 113.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 115.0 35.0  | -    | -    | -    | -    | -   | -    | -    | 2.6  | -    | -    | -    | -    |
| 117.0 35.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.0  | -    | -    | 0.0  | -    |
| 117.0 40.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.7  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 55.0  | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 8.0  | -    | -    | -    | -    | -    |
| 123.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 50.0  | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 3.3  | 3.0  | 0.0  | 0.0  | 0.0  | -    |

*Lampadena urophaos*

| STATION     | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 100.0 60.0  | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.6  | 19.6 | 0.0  | -    |
| 100.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 100.0 | -    | -    | -    | 0.0  | -   | 0.0  | 5.9  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Lampadena urophaos* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 103.0   | 70.0 | -    | -    | 0.0  | 0.0 | 3.2  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | 0.0  | 8.1 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 3.2  | 0.0 | 3.1  | 2.5  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 15.8 | 2.4  | -    |
| 120.0   | 80.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 120.0   | 90.0 | 3.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 10.2 | 0.0  | 33.5 | 0.0  | -    |
| 127.0   | 40.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.5  | 5.6  | 0.0  | 3.6  | 0.0  | 0.0  | -    |
| 137.0   | 45.0 | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | 0.0  | -    | -    | -    |

*Lampanyctus* spp.

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 40.0    | 70.0  | -    | -    | -    | -    | -    | 5.9  | -    | -    | -    | -    | -    |
| 40.0    | 80.0  | -    | -    | -    | -    | -    | 6.4  | -    | -    | -    | -    | -    |
| 50.0    | 60.0  | -    | -    | -    | -    | -    | 5.2  | -    | -    | -    | -    | -    |
| 50.0    | 70.0  | -    | -    | -    | -    | -    | 8.8  | -    | -    | -    | -    | -    |
| 53.0    | 65.0  | -    | -    | -    | -    | 0.0  | 5.9  | -    | -    | -    | -    | -    |
| 60.0    | 60.0  | -    | -    | 0.0  | -    | 0.0  | 14.6 | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 70.0  | -    | -    | 0.0  | -    | 0.0  | 7.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 80.0  | -    | -    | 0.0  | -    | 0.0  | -    | -    | 6.5  | 2.8  | 2.8  | -    |
| 60.0    | 90.0  | -    | -    | 0.0  | 5.5  | 0.0  | 6.0  | -    | 5.9  | 0.0  | 0.0  | -    |
| 60.0    | 100.0 | -    | -    | 0.0  | 2.8  | 0.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 110.0 | -    | -    | -    | -    | -    | -    | -    | 0.0  | 2.5  | 0.0  | -    |
| 63.0    | 60.0  | -    | -    | -    | 0.0  | 0.0  | 7.3  | -    | 0.0  | 0.0  | 2.7  | -    |
| 67.0    | 65.0  | -    | -    | -    | -    | 0.0  | 5.6  | 6.6  | 0.0  | -    | 0.0  | -    |
| 70.0    | 51.0  | -    | -    | -    | -    | -    | 0.0  | 11.0 | 0.0  | -    | 0.0  | -    |
| 70.0    | 60.0  | -    | -    | 0.0  | 0.0  | 6.4  | 6.9  | 11.8 | 0.0  | 0.0  | 2.7  | -    |
| 70.0    | 70.0  | -    | -    | 0.0  | 0.0  | 6.3  | 15.6 | 6.3  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 75.0  | -    | -    | -    | -    | 6.2  | -    | -    | -    | -    | -    | -    |
| 70.0    | 80.0  | -    | -    | 2.5  | 5.0  | 6.4  | 9.3  | 2.6  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0  | -    | -    | 8.4  | 8.4  | 2.6  | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 100.0 | -    | -    | -    | 14.7 | 16.1 | -    | -    | -    | -    | -    | -    |
| 73.0    | 55.0  | -    | -    | -    | 0.0  | 11.7 | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 60.0  | -    | -    | 0.0  | 8.9  | -    | 5.1  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0  | -    | -    | 0.0  | 0.0  | 0.0  | 13.5 | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 55.0  | -    | -    | 2.4  | 3.0  | 0.0  | 0.0  | 18.6 | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 60.0  | -    | -    | -    | 26.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 65.0  | -    | -    | -    | 22.3 | -    | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | 0.0  | 2.8  | 2.4  | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0  | 0.0  | 9.8  | 8.2  | 0.0  | 10.1 | 14.6 | 3.0  | 0.0  | 2.8  | 0.0  | -    |
| 80.0    | 80.0  | 5.2  | 0.0  | 7.1  | 9.8  | 11.4 | 20.0 | 11.4 | 3.0  | 0.0  | 0.0  | -    |
| 80.0    | 90.0  | 2.6  | 4.5  | 2.8  | 8.0  | 5.3  | 0.0  | 3.1  | 9.1  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 2.7  | 5.6  | 0.0  | 8.1  | 9.3  | 0.0  | 0.0  | -    |
| 83.0 55.0  | -    | -    | -    | 0.0  | 3.2  | 5.0  | -    | -    | -    | -    | -    | -    |
| 83.0 60.0  | -    | -    | -    | 0.0  | 10.3 | 7.0  | -    | -    | -    | -    | -    | -    |
| 83.0 65.0  | -    | -    | -    | -    | 22.3 | -    | -    | -    | -    | -    | -    | -    |
| 83.0 70.0  | -    | -    | -    | 0.0  | 17.5 | 2.9  | -    | -    | -    | -    | -    | -    |
| 83.0 75.0  | -    | -    | -    | -    | 14.6 | 10.5 | -    | -    | -    | -    | -    | -    |
| 83.0 80.0  | -    | -    | -    | 14.4 | 21.9 | 46.6 | -    | -    | -    | -    | -    | -    |
| 83.0 85.0  | -    | -    | -    | 10.9 | 8.1  | -    | -    | -    | -    | -    | -    | -    |
| 83.0 90.0  | -    | -    | -    | -    | 5.6  | 24.8 | -    | -    | -    | -    | -    | -    |
| 85.0 38.0  | 0.0  | 0.0  | 3.2  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0 40.0  | 0.0  | 2.5  | 6.6  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0 60.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 2.7  | 0.0  | 2.8  | 6.0  | 0.0  | -    |
| 85.0 70.0  | 0.0  | 2.3  | 0.0  | -    | -    | -    | 2.6  | -    | -    | -    | -    | -    |
| 85.0 80.0  | -    | -    | -    | -    | -    | -    | 13.0 | -    | -    | -    | -    | -    |
| 85.0 90.0  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 87.0 50.0  | -    | -    | -    | 2.7  | 4.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 55.0  | -    | -    | -    | -    | 9.3  | 59.8 | -    | -    | -    | -    | -    | -    |
| 87.0 60.0  | -    | -    | -    | 5.8  | 13.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 65.0  | -    | -    | -    | 55.3 | -    | -    | -    | -    | -    | -    | -    | -    |
| 87.0 70.0  | -    | -    | -    | 2.9  | 52.1 | 11.2 | -    | -    | -    | -    | -    | -    |
| 87.0 75.0  | -    | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    | -    | -    |
| 87.0 80.0  | -    | -    | -    | 3.2  | 4.9  | 2.9  | -    | -    | -    | -    | -    | -    |
| 87.0 90.0  | -    | -    | -    | 2.6  | -    | -    | -    | -    | -    | -    | -    | -    |
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 31.0  | -    | -    | -    | -    | 3.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0 33.0  | -    | -    | -    | -    | 5.6  | 2.7  | -    | -    | -    | -    | -    | -    |
| 90.0 37.0  | 2.5  | 0.0  | 0.0  | 2.6  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0 41.0  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 90.0 45.0  | 0.0  | 2.7  | 0.0  | 3.3  | 2.3  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 23.3 | 11.7 | 33.1 | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 3.1  | 5.5  | 24.2 | 5.4  | 2.8  | 6.0  | 2.3  | 0.0  | -    |
| 90.0 65.0  | -    | -    | -    | -    | 0.0  | 3.4  | -    | -    | -    | -    | -    | -    |
| 90.0 70.0  | 0.0  | 2.8  | 5.7  | 60.0 | -    | 12.6 | 0.0  | 2.7  | 2.7  | 0.0  | 2.7  | -    |
| 90.0 75.0  | -    | -    | -    | -    | 26.7 | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0  | 4.9  | 9.3  | 23.9 | 10.5 | 12.0 | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 10.0 | 15.8 | 8.6  | 5.9  | -    | -    | -    | -    | -    |
| 90.0 100.0 | -    | -    | -    | 38.1 | -    | 5.5  | 11.4 | -    | -    | -    | -    | -    |
| 93.0 30.0  | 0.0  | 0.0  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 35.0  | -    | -    | -    | -    | 6.5  | 9.7  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 40.0  | 0.0  | 2.4  | 0.0  | 3.1  | 0.0  | 22.4 | 14.3 | 0.0  | 6.1  | 0.0  | 0.0  | -    |
| 93.0 45.0  | -    | -    | -    | -    | 0.0  | 0.0  | 23.1 | -    | -    | -    | -    | -    |
| 93.0 50.0  | 0.0  | 0.0  | 7.8  | 15.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | -    | -    | -    | -    | 5.8  | 66.5 | 12.1 | -    | -    | -    | -    | -    |
| 93.0 60.0  | 2.6  | 0.0  | 0.0  | 8.3  | 29.4 | 4.9  | 5.5  | -    | -    | -    | -    | -    |
| 93.0 65.0  | -    | -    | -    | -    | 19.6 | 26.1 | -    | -    | -    | -    | -    | -    |
| 93.0 70.0  | 10.2 | 0.0  | 0.0  | 33.4 | 0.0  | 31.7 | 6.2  | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 93.0    | 80.0  | -    | -    | 74.8 | 6.4  | 7.6  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | 43.0 | -    | -    | 2.9  | -    | -    | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 14.3 | 2.8  | -    | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 2.4  | -    |
| 97.0    | 35.0  | -    | -    | -    | 11.0 | -    | -    | 0.0  | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 2.6  | 2.9  | 0.0  | 4.6  | 21.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -    | -    | -    | 5.4  | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 2.7  | 3.0  | 14.3 | 14.4 | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -    | -    | 10.5 | 24.5 | 18.8 | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 22.6 | 11.8 | 13.2 | 4.1  | 15.1 | 5.2  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | -    | 4.0  | 40.8 | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 5.7  | 8.2  | 2.8  | 11.5 | 12.8 | 3.2  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 8.7  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 17.1 | 18.3 | 21.2 | 31.9 | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 23.0 | 2.8  | 0.0  | 8.8  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | -    |
| 100.0   | 30.0  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 8.9  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 5.4  | 8.2  | 0.0  | 0.0  | 1.5  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0  | -    | -    | -    | 0.0  | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 13.0 | 4.6  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 3.5  | 3.3  | 6.6  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | 0.0  | 4.0  | 22.4 | 8.9  | 9.0  | 6.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 4.8  | 7.4  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 7.1  | 13.3 | 0.0  | 3.0  | 6.4  | 0.0  | 5.3  | 3.3  | 0.0  | -    |
| 100.0   | 80.0  | 5.6  | 8.5  | 9.6  | 0.0  | 0.0  | 2.8  | 11.0 | 3.2  | 0.0  | 4.0  | -    |
| 100.0   | 90.0  | 0.0  | 2.7  | 22.1 | 5.9  | 0.0  | 5.4  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 16.4 | -    | 6.6  | 11.8 | -    | -    | -    | -    | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 2.8  | 2.3  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 16.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 45.0  | -    | -    | -    | 4.5  | -    | -    | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -    | 3.0  | 14.2 | 5.6  | -    | -    | -    | -    | -    | -    |
| 103.0   | 55.0  | -    | -    | -    | -    | 3.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 3.2  | 8.9  | 14.0 | -    | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 12.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 4.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 6.6  | 0.0  | 7.5  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 19.9 | 14.9 | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 0.0  | 0.0  | -    | -    | -    | 2.7  | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 2.9  | 2.5  | -    | -    | -    | 6.4  | -    | -    | -    | -    | -    |
| 105.0   | 45.0  | -    | -    | -    | -    | -    | 3.3  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 2.4  | 2.7  | -    | -    | -    | 6.7  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -    | 19.4 | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 6.1  | 2.8  | -    | -    | -    | 5.6  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 5.4  | 3.8  | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 105.0   | 80.0 | 3.0  | -    | -    | -    | -    | 2.4  | -    | -    | -    | -    | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 8.5  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 35.0 | -    | -    | 3.0  | 4.3  | 3.2  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0 | -    | -    | 0.0  | 2.5  | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 45.0 | -    | -    | -    | 2.2  | 13.1 | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | -    | 0.0  | 6.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0 | -    | -    | 3.5  | 2.6  | 8.9  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0 | -    | -    | -    | -    | 7.2  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 12.6 | 0.0  | 3.4  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | 9.2  | 10.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0 | -    | -    | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 110.0   | 35.0 | 5.2  | 0.0  | 9.3  | 0.0  | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0 | 5.7  | 14.6 | 3.3  | 2.8  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 45.0 | -    | -    | -    | 9.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0 | 5.7  | 11.8 | 11.8 | 22.2 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 2.6  | -    |
| 110.0   | 60.0 | -    | 2.4  | 2.9  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 65.0 | -    | -    | -    | -    | 15.0 | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 2.8  | 21.4 | 11.8 | 3.5  | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 3.3  | -    | 12.6 | 3.1  | 3.1  | 10.1 | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 2.2  | -    | 13.8 | 0.0  | 3.3  | 6.6  | -    | -    | -    | -    | -    |
| 113.0   | 35.0 | -    | 5.3  | 10.7 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 40.0 | -    | 0.0  | 8.7  | 3.1  | 6.5  | 0.0  | 7.3  | 0.0  | -    | 0.0  | -    |
| 113.0   | 45.0 | -    | -    | 8.8  | 5.1  | 3.6  | 2.9  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | -    | 27.6 | 3.2  | 9.5  | 11.8 | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 16.8 | 13.4 | 0.0  | 5.1  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | -    | 38.4 | 7.1  | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 19.6 | 6.6  | 3.2  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | -    | -    | 7.7  | 6.4  | 8.8  | 0.0  | 0.0  | -    | -    | -    | -    |
| 115.0   | 35.0 | 2.9  | -    | -    | -    | -    | -    | 0.0  | -    | -    | -    | -    |
| 115.0   | 50.0 | 3.1  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 115.0   | 60.0 | 3.1  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 117.0   | 35.0 | -    | 1.6  | 6.0  | 0.0  | 0.0  | 0.0  | 2.3  | -    | -    | 0.0  | -    |
| 117.0   | 40.0 | -    | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | -    | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | -    | 1.5  | 5.8  | 2.6  | 3.8  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 9.7  | 6.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | -    | 0.0  | 3.1  | 2.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 4.1  | 3.0  | 9.4  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | -    | -    | 10.3 | 0.0  | 6.6  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 7.7  | 0.0  | 0.0  | 2.8  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 3.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 2.0  | 2.4  | -    |
| 120.0   | 60.0 | 0.0  | 14.7 | 0.0  | 5.7  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 0.0  | 3.0  | 2.8  | 16.4 | -    | 0.0  | -    | -    | -    | -    |
| 120.0   | 70.0 | 3.2  | 23.9 | 9.1  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Lampanyctus* spp. (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 120.0   | 80.0 | 6.3  | 11.7 | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 14.2 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 123.0   | 40.0 | 1.9  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | -    | 0.0  | 0.0  | 4.1  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 3.1  | 10.4 | 1.2  | 5.6  | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | -    | 0.0  | 14.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | -    |
| 127.0   | 40.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | 5.9  | -    | 0.0  | 14.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | -    | 0.0  | 17.5 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 6.2  | 8.6  | 6.1  | 0.0  | 2.9  | 3.1  | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.6  | 0.0  | 3.2  | 1.6  | -    |
| 130.0   | 45.0 | -    | -    | 0.0  | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 2.9  | 11.4 | 21.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | -    | 7.8  | -    | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | -    | 0.0  | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 15.1 | 2.9  | 2.9  | 0.0  | 12.6 | 0.0  | 0.0  | 3.1  | 0.0  | 9.1  | -    |
| 130.0   | 70.0 | 12.9 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 80.0 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 6.8  | 0.0  | 8.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | -    | 8.1  | 0.0  | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | 3.2  | -    | 1.4  | 0.0  | -    | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | -    | 5.4  | -    | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.6  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | -    |
| 137.0   | 35.0 | -    | -    | 2.6  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 2.6  | 3.1  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 2.9  | 6.6  | 0.0  | 2.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 60.0 | 0.0  | -    | 21.0 | 0.0  | 11.8 | 0.0  | 8.7  | -    | -    | -    | -    |
| 140.0   | 35.0 | -    | 2.8  | 13.4 | -    | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 40.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 50.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 30.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 40.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |

*Notolynchus valdiviae*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 100.0 | -    | -    | 0.0  | -   | 8.3  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Notolychnus valdiviae* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 97.0 55.0  | -    | -    | -    | -    | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 5.4  | -    | -    | -    | -    | -    |

*Notoscopelus resplendens*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 100.0 | -    | -    | -    | 0.0  | -   | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 55.0 | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.7  | -    | -    | -    | -    | -    |

*Stenobranchius leucopsarus*

| STATION    | JAN. | FEB. | MAR. | APR.  | MAY  | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|-------|------|-------|------|------|------|------|------|------|
| 40.0 50.0  | -    | -    | -    | -     | -    | -     | 8.8  | -    | -    | -    | -    | -    |
| 40.0 60.0  | -    | -    | -    | -     | -    | -     | 32.2 | -    | -    | -    | -    | -    |
| 40.0 70.0  | -    | -    | -    | -     | -    | -     | 41.6 | -    | -    | -    | -    | -    |
| 40.0 80.0  | -    | -    | -    | -     | -    | -     | 6.4  | -    | -    | -    | -    | -    |
| 47.0 50.0  | -    | -    | -    | -     | -    | -     | 11.0 | -    | -    | -    | -    | -    |
| 47.0 60.0  | -    | -    | -    | -     | -    | -     | 6.4  | -    | -    | -    | -    | -    |
| 50.0 50.0  | -    | -    | -    | -     | -    | 175.6 | 0.0  | -    | -    | -    | -    | -    |
| 50.0 55.0  | -    | -    | -    | -     | -    | -     | 24.6 | -    | -    | -    | -    | -    |
| 50.0 60.0  | -    | -    | -    | -     | -    | -     | 5.2  | -    | -    | -    | -    | -    |
| 53.0 52.0  | -    | -    | -    | -     | -    | 20.5  | -    | -    | -    | -    | -    | -    |
| 53.0 55.0  | -    | -    | -    | -     | -    | 19.1  | 22.8 | -    | -    | -    | -    | -    |
| 53.0 60.0  | -    | -    | -    | -     | -    | -     | 11.6 | -    | -    | -    | -    | -    |
| 53.0 65.0  | -    | -    | -    | -     | -    | 28.2  | 5.9  | -    | -    | -    | -    | -    |
| 57.0 55.0  | -    | -    | -    | -     | -    | 82.1  | 4.4  | -    | -    | -    | -    | -    |
| 57.0 65.0  | -    | -    | -    | -     | -    | 88.0  | 6.0  | -    | -    | -    | -    | -    |
| 60.0 55.0  | -    | -    | -    | 28.1  | -    | 7.8   | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 60.0 60.0  | -    | -    | -    | 221.8 | -    | 47.0  | 0.0  | -    | 0.0  | 0.0  | 27.0 | -    |
| 60.0 65.0  | -    | -    | -    | -     | -    | 195.2 | -    | -    | -    | -    | -    | -    |
| 60.0 70.0  | -    | -    | -    | 11.8  | -    | 17.5  | 4.6  | -    | 0.0  | 0.0  | -    | -    |
| 60.0 80.0  | -    | -    | -    | 88.6  | -    | -     | -    | -    | 0.0  | 0.0  | 2.9  | -    |
| 60.0 90.0  | -    | -    | -    | 8.7   | 8.7  | 11.3  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0 100.0 | -    | -    | -    | 0.0   | 0.0  | 3.2   | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0 110.0 | -    | -    | -    | -     | -    | -     | -    | -    | 0.0  | 0.0  | 2.9  | -    |
| 63.0 55.0  | -    | -    | -    | 0.0   | 0.0  | 10.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 63.0 60.0  | -    | -    | -    | 106.8 | 58.0 | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 63.0 65.0  | -    | -    | -    | 35.7  | 0.0  | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 67.0 50.0  | -    | -    | -    | 11.8  | 0.0  | 0.0   | -    | 0.0  | 0.0  | -    | 8.6  | -    |
| 67.0 55.0  | -    | -    | -    | 24.1  | 12.5 | 0.0   | 17.2 | 0.0  | 0.0  | 7.0  | 2.6  | -    |
| 67.0 65.0  | -    | -    | -    | -     | -    | 14.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

| STATION | JAN.  | FEB.  | MAR.   | APR.  | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|-------|--------|-------|-------|-------|------|------|------|------|------|------|
| 70.0    | 51.0  | -     | -      | 19.1  | 5.6   | -     | 0.0  | 0.0  | 0.0  | -    | 32.9 | -    |
| 70.0    | 55.0  | -     | -      | 40.0  | 48.2  | 0.0   | -    | -    | -    | -    | -    | -    |
| 70.0    | 60.0  | -     | -      | -     | 22.5  | 6.4   | 0.0  | 0.0  | 0.0  | 0.0  | 18.7 | -    |
| 70.0    | 65.0  | -     | -      | 8.8   | 68.3  | 37.7  | 31.1 | -    | 0.0  | -    | -    | -    |
| 70.0    | 70.0  | -     | -      | 110.7 | 19.8  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 70.0    | 80.0  | -     | -      | 150.5 | 8.4   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 11.0 | -    |
| 70.0    | 90.0  | -     | -      | 2.4   | 2.5   | 0.0   | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 73.0    | 50.0  | -     | -      | -     | 11.4  | 14.6  | 10.0 | 0.0  | 0.0  | 2.8  | -    | -    |
| 73.0    | 55.0  | -     | -      | -     | 38.6  | -     | 2.5  | 0.0  | 0.0  | 0.0  | -    | -    |
| 73.0    | 60.0  | -     | -      | 8.1   | 48.6  | 0.0   | 8.1  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0  | -     | -      | 15.0  | 0.0   | 51.4  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 77.0    | 55.0  | -     | -      | 80.9  | 0.0   | 36.6  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 60.0  | -     | -      | -     | 14.6  | -     | -    | -    | -    | -    | -    | -    |
| 77.0    | 65.0  | -     | -      | -     | 47.7  | -     | 13.2 | 24.2 | 0.0  | 0.0  | 16.2 | -    |
| 80.0    | 51.0  | 6.9   | 0.0    | 62.5  | 0.0   | 1.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0  | 113.1 | 0.0    | 58.3  | 2.8   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0  | 20.1  | 151.9  | 33.7  | 19.1  | 34.7  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0    | 70.0  | 29.2  | 356.2  | 139.7 | 2.6   | 46.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0  | 67.6  | 188.3  | 519.0 | 19.7  | 2.5   | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0  | -     | -      | -     | 25.8  | -     | -    | -    | -    | -    | -    | -    |
| 80.0    | 90.0  | 31.2  | 299.3  | 256.6 | 10.6  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 33.8  | 2.8    | 10.5  | 18.8  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 110.0 | 2.4   | -      | -     | -     | -     | -    | -    | -    | -    | -    | -    |
| 83.0    | 43.0  | -     | -      | -     | 10.7  | 4.8   | -    | -    | -    | -    | -    | -    |
| 83.0    | 55.0  | -     | -      | 80.6  | 82.2  | 30.1  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0  | -     | -      | 42.9  | 67.1  | 0.0   | -    | -    | -    | -    | -    | -    |
| 83.0    | 65.0  | -     | -      | -     | 22.3  | -     | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0  | -     | -      | 77.0  | 32.0  | 2.9   | -    | -    | -    | -    | -    | -    |
| 83.0    | 75.0  | -     | -      | -     | 5.8   | 10.5  | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0  | -     | -      | 57.6  | 30.1  | 23.3  | -    | -    | -    | -    | -    | -    |
| 83.0    | 85.0  | -     | -      | -     | 8.1   | -     | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -     | -      | 71.6  | 2.8   | 0.0   | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0  | 9.0   | 432.0  | -     | -     | -     | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 85.0    | 40.0  | 141.7 | 1387.9 | -     | -     | -     | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 50.0  | 5.4   | 90.6   | -     | -     | -     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 393.7 | 35.2   | -     | -     | -     | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 85.0    | 70.0  | 36.5  | 1103.2 | -     | -     | -     | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 85.0    | 80.0  | -     | -      | -     | -     | -     | 6.5  | -    | -    | -    | -    | -    |
| 87.0    | 35.0  | -     | -      | 400.9 | 0.0   | 22.2  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0  | -     | -      | 21.1  | 3.1   | 4.8   | -    | -    | -    | -    | -    | -    |
| 87.0    | 45.0  | -     | -      | -     | 0.0   | 9.7   | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0  | -     | -      | 10.9  | 25.4  | 3.2   | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0  | -     | -      | -     | 24.8  | 119.7 | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0  | -     | -      | 84.1  | 68.6  | 79.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0  | -     | -      | -     | 159.6 | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -     | -      | 25.8  | 121.5 | 44.8  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

| STATION | JAN.  | FEB.  | MAR.  | APR.   | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|-------|-------|--------|-------|------|------|------|------|------|------|------|
| 87.0    | 75.0  | -     | -     | -      | 17.3  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -     | -     | 9.6    | 4.9   | 5.8  | -    | -    | -    | -    | -    | -    |
| 87.0    | 90.0  | -     | -     | 10.3   | -     | -    | -    | -    | -    | -    | -    | -    |
| 83.6    | 30.7  | -     | 0.0   | 58.9   | 20.4  | 39.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 67.8    | 108.4 | -     | 88.4  | 1048.6 | 13.1  | 17.6 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | -     | -     | -      | -     | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 31.0  | -     | -     | -      | -     | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 35.0  | -     | -     | -      | -     | 85.9 | 10.7 | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 37.0  | 49.2  | 53.8  | 1117.1 | 31.5  | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 39.0  | -     | -     | -      | -     | 3.1  | -    | -    | -    | -    | -    | -    |
| 90.0    | 41.0  | -     | -     | -      | -     | 18.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 45.0  | 72.0  | 71.0  | 142.3  | 94.0  | 10.5 | 12.1 | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 90.0    | 53.0  | 0.0   | 6.8   | 66.1   | 52.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 2.3   | 59.2  | 15.4   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 90.0    | 70.0  | 2.5   | 0.0   | 0.0    | -     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 80.0  | 12.4  | 0.0   | 0.0    | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 25.3  | 1.4   | 288.0  | 5.2   | 47.3 | 2.8  | 2.6  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 88.2  | 80.0  | 94.4   | 339.2 | 49.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0  | -     | -     | -      | 117.7 | 32.2 | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0  | 124.8 | 52.4  | 114.3  | 26.9  | 47.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -     | -     | -      | 61.6  | 7.1  | 4.6  | -    | -    | 0.0  | 0.0  | -    |
| 93.0    | 50.0  | 14.0  | 138.3 | 103.3  | 0.0   | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -     | -     | -      | 43.7  | 28.0 | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 60.0  | 2.6   | 57.5  | 52.6   | 36.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -     | -     | -      | 0.0   | 6.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0   | 14.3  | 0.0    | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -     | -     | 21.5   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -     | -     | -      | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 30.0  | 0.0   | 5.4   | -      | 11.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 32.0  | 50.6  | 49.8  | 45.4   | -     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 35.0  | -     | -     | -      | 106.7 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0  | -     | -     | -      | -     | 8.5  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 6.1   | 31.2  | 89.3   | 12.6  | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -     | -     | -      | 53.6  | 14.7 | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 7.7   | 24.0  | 53.5   | 0.0   | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -     | -     | -      | 0.0   | 39.8 | 16.1 | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 4.6   | 2.9   | 19.7   | 0.0   | 34.2 | 5.2  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -     | -     | -      | 0.0   | 22.0 | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 18.1  | 0.0   | 0.0    | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -     | 16.4  | 0.0    | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -     | -     | 19.9   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -     | -     | 39.5   | 0.0   | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    |
| 100.0   | 30.0  | -     | 1.5   | 40.5   | 3.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -     | 45.0  | 13.4   | 9.5   | 1.3  | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0  | 12.9  | 341.5 | 0.0    | -     | 4.2  | 9.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0  | -     | -     | -      | 7.6   | 44.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | -     | 2.5   | 84.5   | 18.9  | 17.6 | 5.5  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | -     | 3.0   | -      | 16.0  | 0.0  | 10.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Stenobrachius leucopsarus* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|-------|-------|------|------|------|------|------|------|------|
| 100.0   | 60.0  | -    | 2.0  | 0.0   | 6.0   | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 4.7  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 2.7  | 0.0   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 19.7  | -     | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 74.4  | 21.3  | 0.8  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 35.0  | -    | -    | 26.2  | 0.0   | 16.6 | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 25.5  | 5.3   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 50.0  | -    | -    | 14.2  | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 0.0   | 0.0   | 2.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 16.5  | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 9.5   | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 12.6 | 17.5 | -     | -     | -    | 5.4  | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 2.8  | 7.7  | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 5.7  | 4.9  | -     | -     | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 67.0  | 102.2 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 5.9   | 8.6   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -    | 12.6  | 0.0   | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 17.9  | 3.4   | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | -    | -    | 92.4  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0  | 10.3 | 27.2 | 117.8 | 9.8   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 29.2 | 19.9  | 53.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 14.8 | 3.0   | 11.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0  | 0.0  | 0.0  | 8.9   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 30.0  | 1.5  | 2.7  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | 8.9  | 21.3 | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 113.0   | 45.0  | -    | -    | 5.9   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0  | 3.0  | 0.0  | 9.6   | 3.2   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 26.0  | 0.0  | -    | 6.2   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 40.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | -    |
| 120.0   | 30.0  | 0.0  | 7.8  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0  | 0.0  | 3.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0  | -    | 0.0  | 0.0   | 2.6   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 45.0  | -    | 0.0  | 5.8   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 50.0  | 0.0  | 0.0  | 8.5   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 40.0  | -    | 0.0  | 3.1   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |

*Triphoturus mexicanus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 80.0    | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.6  | 2.6  | 0.0  | -    |
| 85.0    | 38.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 28.2 | 1.1  | 2.0  | 0.0  | -    |
| 85.0    | 40.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 7.9  | 2.7  | 0.0  | 0.0  | -    |
| 85.0    | 45.0 | -    | -    | -    | -   | -    | 2.9  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY   | JUNE  | JULY  | AUG.  | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-------|-------|-------|-------|------|------|------|------|
| 85.0    | 50.0  | 0.0  | 0.0  | -    | -     | -     | 10.3  | 3.1   | 23.3 | 0.0  | 0.0  | -    |
| 87.0    | 35.0  | -    | -    | 0.0  | 0.0   | 5.7   | -     | -     | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 11.4  | 9.6   | 7.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.8   | 0.0   | 2.8   | 15.4 | 0.0  | 0.0  | -    |
| 90.0    | 35.0  | -    | -    | -    | -     | 5.9   | -     | -     | -    | -    | -    | -    |
| 90.0    | 37.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.7   | 21.4  | 10.9  | 11.0 | -    | 5.5  | -    |
| 90.0    | 45.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 3.1   | 0.0   | 0.0  | 0.0  | 3.0  | -    |
| 90.0    | 53.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.0   | 0.0   | 5.8   | 0.0  | 0.0  | 2.8  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 2.8   | 3.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 2.7  | -    |
| 90.0    | 75.0  | -    | -    | 0.0  | -     | 3.0   | -     | -     | -    | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 0.0  | 2.6  | 7.2   | 2.8   | 0.0   | -     | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 0.0  | 2.6   | 2.9   | 0.0   | -     | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 0.0  | -     | 24.8  | 11.4  | -     | -    | -    | -    | -    |
| 93.0    | 27.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 125.4 | 0.8  | 16.9 | 5.9  | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0   | 7.4   | 30.6  | 54.0  | 6.8  | 0.0  | 2.8  | -    |
| 93.0    | 35.0  | -    | -    | -    | 3.3   | 0.0   | 0.0   | -     | -    | -    | -    | -    |
| 93.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0   | 4.7   | 8.6   | 18.2  | 75.8 | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -    | -    | -    | 0.0   | 0.0   | 4.6   | -     | -    | 0.0  | 0.0  | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 12.5 | 0.0   | 0.0   | 10.3  | 5.5   | 17.7 | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -    | -    | 2.8  | 0.0   | 0.0   | 6.0   | -     | -    | -    | -    | -    |
| 93.0    | 60.0  | 0.0  | 0.0  | 0.0  | 9.8   | 7.3   | 0.0   | -     | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | 0.0  | 0.0   | 9.8   | -     | -     | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 0.0  | 12.0  | 38.7  | 74.2  | -     | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 18.7 | 9.6   | 3.8   | 16.9  | -     | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | 21.5 | -     | -     | 14.6  | -     | -    | -    | -    | -    |
| 97.0    | 30.0  | 0.0  | 0.0  | -    | 0.0   | 0.0   | 2.0   | 0.0   | 4.0  | -    | 0.0  | -    |
| 97.0    | 32.0  | 0.0  | 0.0  | 0.0  | -     | 0.0   | 37.6  | 60.7  | 61.2 | 25.4 | 29.0 | -    |
| 97.0    | 36.0  | -    | -    | -    | -     | 8.5   | -     | -     | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 9.5   | 1.5   | 39.6  | 131.6 | 11.5 | 73.4 | 23.9 | -    |
| 97.0    | 45.0  | -    | -    | -    | 0.0   | 0.0   | 53.3  | -     | -    | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.5   | 19.6  | 0.0   | 0.0  | 23.6 | 9.2  | -    |
| 97.0    | 55.0  | -    | -    | -    | 0.0   | 6.1   | 2.7   | -     | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 13.2 | 8.3   | 1.6   | 0.0   | -     | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | -    | 15.9  | 34.5  | 0.0   | -     | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 42.0  | 6.4   | 0.0   | -     | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | 0.0  | 150.3 | -     | -     | -     | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 54.8  | 9.1   | 31.9  | -     | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 0.0  | 47.9  | 30.1  | 14.7  | -     | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | -    | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 40.3 | 15.6 | 2.5  | -    |
| 100.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0   | 5.9   | 0.0   | 5.4   | 63.6 | 44.8 | 13.0 | -    |
| 100.0   | 35.0  | -    | -    | 0.0  | 0.0   | 247.1 | 12.5  | -     | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 3.8  | 5.1   | 17.5  | 139.9 | 113.7 | 29.7 | 23.4 | 0.0  | -    |
| 100.0   | 45.0  | -    | -    | -    | 18.9  | 10.6  | 202.8 | -     | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 9.1   | 24.4  | 171.4 | 20.1  | 6.2  | 53.6 | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0   | 53.0  | 156.0 | -     | -    | -    | -    | -    |



TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY   | JUNE  | JULY | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-------|-------|------|-------|-------|------|------|------|
| 100.0   | 60.0  | -    | 0.0  | 51.2 | 38.7  | 16.6  | 44.8 | 9.3   | 2.8   | 14.8 | 12.8 | -    |
| 100.0   | 65.0  | -    | -    | -    | 14.6  | 11.2  | -    | -     | -     | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 26.6 | 0.0   | 21.1  | 3.2  | 8.1   | 29.0  | 58.7 | 3.0  | -    |
| 100.0   | 75.0  | -    | -    | -    | 27.2  | -     | -    | -     | -     | -    | -    | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 25.7 | 4.6   | 20.8  | 8.4  | 8.8   | 19.3  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 28.4 | 14.8  | 7.5   | 13.5 | -     | -     | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 13.1 | -     | 16.6  | 14.8 | -     | -     | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 0.0  | 0.0   | 6.5   | -    | 6.1   | 107.1 | 7.5  | 4.8  | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 8.6   | 8.7   | -    | 77.0  | 17.2  | 2.2  | 21.4 | -    |
| 103.0   | 40.0  | -    | -    | 9.6  | 5.3   | 2.8   | -    | 180.8 | 25.6  | 48.1 | 2.4  | -    |
| 103.0   | 45.0  | -    | -    | -    | 6.8   | -     | -    | -     | -     | -    | -    | -    |
| 103.0   | 50.0  | -    | -    | 0.0  | 11.4  | 22.6  | -    | -     | -     | -    | -    | -    |
| 103.0   | 55.0  | -    | -    | -    | -     | 45.2  | -    | -     | -     | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 12.6 | 106.6 | 14.0  | -    | -     | -     | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 53.2  | 7.3   | -    | -     | -     | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 19.1 | 47.6  | 9.5   | -    | -     | -     | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 2.4   | 17.5  | -    | -     | -     | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 0.0  | 9.1   | 82.1  | -    | -     | -     | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 3.2  | 88.0  | 22.3  | -    | -     | -     | -    | -    | -    |
| 105.0   | 32.0  | 1.1  | 0.0  | -    | -     | -     | 0.0  | -     | -     | -    | -    | -    |
| 105.0   | 35.0  | 0.0  | 0.0  | -    | -     | -     | 27.1 | -     | -     | -    | -    | -    |
| 105.0   | 40.0  | 0.0  | 0.0  | -    | -     | -     | 9.5  | -     | -     | -    | -    | -    |
| 105.0   | 45.0  | -    | -    | -    | -     | -     | 29.5 | -     | -     | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 0.0  | -    | -     | -     | 30.1 | -     | -     | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -     | -     | 29.2 | -     | -     | -    | -    | -    |
| 105.0   | 60.0  | 0.0  | 2.8  | -    | -     | -     | 19.5 | -     | -     | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 0.0  | -    | -     | -     | 80.9 | -     | -     | -    | -    | -    |
| 105.0   | 80.0  | 2.4  | -    | -    | -     | -     | 16.9 | -     | -     | -    | -    | -    |
| 105.0   | 90.0  | -    | -    | -    | -     | -     | 12.0 | -     | -     | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 16.0 | 12.8  | 3.5   | -    | 17.8  | 0.0   | 11.7 | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 82.1  | 48.2  | -    | 19.9  | 7.2   | 0.0  | 3.1  | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 14.8  | 34.1  | -    | 7.8   | 24.6  | -    | -    | -    |
| 107.0   | 45.0  | -    | -    | -    | 24.2  | 176.6 | -    | -     | -     | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 3.6  | 6.9   | 57.4  | -    | -     | -     | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | -    | -     | 21.2  | -    | -     | -     | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 10.4 | 159.3 | 26.7  | -    | -     | -     | -    | -    | -    |
| 107.0   | 65.0  | -    | -    | -    | -     | 10.8  | -    | -     | -     | -    | -    | -    |
| 107.0   | 70.0  | -    | -    | 28.4 | 26.5  | 10.1  | -    | -     | -     | -    | -    | -    |
| 107.0   | 80.0  | -    | -    | 9.2  | 24.3  | 17.8  | -    | -     | -     | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -    | 3.0  | 2.0   | 5.8   | 0.0  | 0.0   | 3.1   | 10.3 | 0.0  | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 12.4 | 29.3  | 13.7  | 0.0  | 0.0   | 8.1   | 25.7 | 2.5  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 10.0 | 25.2  | 52.0  | 99.6 | 17.3  | 37.2  | 96.8 | 6.3  | -    |
| 110.0   | 45.0  | -    | -    | -    | 79.0  | 20.9  | -    | -     | -     | -    | -    | -    |
| 110.0   | 50.0  | 2.8  | 0.0  | 17.8 | 103.6 | 217.2 | 35.4 | 37.2  | 59.8  | 55.8 | 18.1 | -    |
| 110.0   | 55.0  | -    | -    | -    | -     | 44.5  | -    | -     | -     | -    | -    | -    |
| 110.0   | 60.0  | -    | 2.4  | 14.5 | 17.7  | 13.0  | 49.8 | 46.9  | 161.2 | 77.7 | 8.7  | -    |

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV. | DEC. |
|---------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 110.0   | 65.0 | -    | -    | -     | -     | 48.6  | -     | -     | -     | -     | -    | -    |
| 110.0   | 70.0 | 0.0  | 10.7 | 103.3 | 38.2  | 210.0 | 40.7  | -     | -     | -     | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 211.7 | 39.9  | 223.2 | 48.1  | -     | -     | -     | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 83.0  | 70.7  | 123.9 | 193.6 | -     | -     | -     | -    | -    |
| 113.0   | 35.0 | 0.0  | 2.7  | 28.7  | 25.4  | 0.0   | 2.8   | 15.4  | -     | -     | 14.0 | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 14.7  | 61.4  | 19.4  | 55.4  | 3.7   | 39.2  | 26.9  | 25.1 | -    |
| 113.0   | 45.0 | -    | -    | 2.9   | 53.1  | 78.5  | 116.8 | -     | -     | -     | -    | -    |
| 113.0   | 50.0 | 0.0  | 30.7 | 6.4   | 22.3  | 200.9 | 57.6  | -     | -     | -     | -    | -    |
| 113.0   | 55.0 | -    | -    | 43.5  | 3.1   | 61.6  | 50.8  | -     | -     | -     | -    | -    |
| 113.0   | 60.0 | 0.0  | 21.9 | 28.3  | 12.6  | 87.8  | 8.0   | -     | -     | -     | -    | -    |
| 113.0   | 65.0 | -    | -    | 26.6  | 65.6  | 29.1  | -     | -     | -     | -     | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 15.4  | 77.0  | 131.9 | 137.2 | -     | -     | -     | -    | -    |
| 115.0   | 30.0 | -    | -    | -     | -     | -     | -     | 5.0   | -     | -     | -    | -    |
| 115.0   | 35.0 | -    | -    | -     | -     | -     | -     | 21.0  | -     | -     | -    | -    |
| 115.0   | 40.0 | -    | -    | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 115.0   | 50.0 | -    | -    | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 115.0   | 60.0 | -    | -    | -     | -     | -     | -     | -     | -     | -     | -    | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0   | 0.0   | 1.9   | 3.5   | 0.0   | 0.0   | 3.2   | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 0.7  | 0.0   | 0.0   | 0.0   | 0.0   | 4.8   | 17.7  | 49.5  | 12.6 | -    |
| 117.0   | 35.0 | 0.0  | 3.1  | 72.0  | 12.2  | 0.0   | 6.6   | 11.7  | -     | -     | 2.3  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 8.9   | 5.7   | 0.0   | 17.0  | 18.0  | 0.0   | 23.3  | 28.3 | -    |
| 117.0   | 45.0 | -    | 5.5  | 75.1  | 35.0  | 0.0   | 17.2  | -     | -     | -     | -    | -    |
| 117.0   | 50.0 | 5.9  | 16.4 | 66.2  | 36.7  | 6.6   | 35.4  | -     | -     | -     | -    | -    |
| 117.0   | 55.0 | -    | 41.9 | 31.8  | 86.6  | 264.3 | 110.8 | -     | -     | -     | -    | -    |
| 117.0   | 60.0 | 0.0  | 2.7  | 37.0  | 15.7  | 0.0   | 30.0  | -     | -     | -     | -    | -    |
| 117.0   | 65.0 | -    | -    | 42.0  | 66.4  | 260.6 | -     | -     | -     | -     | -    | -    |
| 117.0   | 70.0 | 0.0  | -    | 36.0  | 40.6  | 136.1 | 175.0 | -     | -     | -     | -    | -    |
| 118.0   | 35.0 | -    | -    | -     | -     | -     | -     | 20.9  | -     | -     | -    | -    |
| 119.0   | 42.0 | -    | -    | -     | -     | -     | -     | 5.9   | -     | -     | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 1.3   | 0.0   | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 1.3  | 0.0   | 0.0   | 0.0   | 1.8   | 2.2   | 7.9   | 0.0   | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 1.6   | 0.0   | 0.0   | 9.4   | 0.0  | -    |
| 120.0   | 45.0 | 6.8  | 6.1  | 23.2  | 6.5   | 3.0   | 5.2   | 81.6  | 0.0   | 37.6  | 9.2  | -    |
| 120.0   | 50.0 | 11.7 | 24.6 | 30.5  | 15.4  | 39.6  | 179.8 | 121.4 | 158.0 | 86.4  | 17.6 | -    |
| 120.0   | 55.0 | -    | 14.5 | 60.4  | 18.2  | 168.5 | 69.7  | -     | -     | -     | -    | -    |
| 120.0   | 60.0 | -    | 64.2 | 34.3  | 11.5  | 42.3  | 211.0 | 23.8  | 25.0  | 110.9 | 24.1 | -    |
| 120.0   | 65.0 | 3.6  | 53.1 | 26.6  | 55.4  | 140.6 | -     | -     | -     | -     | -    | -    |
| 120.0   | 70.0 | 12.7 | 84.1 | 24.2  | 155.9 | 29.5  | 165.4 | 59.2  | 18.6  | 29.2  | 0.0  | -    |
| 120.0   | 80.0 | 12.6 | 8.0  | 21.3  | 117.0 | 40.2  | 448.0 | 0.0   | 33.7  | 19.1  | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 1.4  | 3.0   | 8.8   | 9.0   | 14.6  | 23.9  | 0.0   | 27.4  | 2.9  | -    |
| 121.0   | 30.0 | -    | -    | -     | -     | -     | -     | 3.0   | -     | -     | -    | -    |
| 123.0   | 37.0 | 7.0  | 0.9  | 0.0   | 10.3  | 6.1   | 0.0   | 0.0   | 0.0   | 0.0   | 3.8  | -    |
| 123.0   | 40.0 | 38.0 | 5.6  | 9.1   | 3.1   | 3.1   | 5.5   | 13.1  | 0.0   | 75.1  | 15.2 | -    |
| 123.0   | 45.0 | -    | 9.1  | 67.2  | 118.9 | 21.4  | 4.9   | -     | 0.0   | 19.2  | 11.4 | -    |
| 123.0   | 50.0 | 0.0  | 27.3 | 33.8  | 26.6  | 37.8  | 166.3 | 27.0  | 7.7   | -     | -    | -    |
| 123.0   | 55.0 | -    | 22.2 | 50.8  | 31.2  | 48.4  | -     | -     | -     | -     | -    | -    |

TABLE 4. (cont.)

*Triphoturus mexicanus* (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEP.  | OCT. | NOV.  | DEC. |
|---------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 123.0   | 60.0 | 6.0  | 29.3  | 55.2  | 15.5  | 97.6  | 21.5  | -     | -     | -    | -     | -    |
| 127.0   | 34.0 | 0.0  | 3.8   | 4.9   | 5.9   | 7.8   | 0.0   | 0.0   | 65.4  | 0.0  | 0.0   | -    |
| 127.0   | 40.0 | 3.0  | 70.0  | 34.4  | 42.1  | 77.0  | 22.8  | 17.1  | 70.1  | 8.0  | -     | -    |
| 127.0   | 45.0 | -    | 38.6  | 0.0   | 20.2  | 405.9 | 46.1  | -     | -     | -    | -     | -    |
| 127.0   | 50.0 | 3.0  | 16.0  | 165.2 | 114.1 | 25.7  | 20.0  | 8.9   | 39.4  | 17.1 | 30.6  | -    |
| 127.0   | 55.0 | -    | 3.0   | 43.8  | 24.5  | 18.7  | -     | -     | -     | -    | -     | -    |
| 127.0   | 60.0 | 6.2  | 10.7  | 14.3  | 48.5  | 51.8  | 120.5 | -     | -     | -    | -     | -    |
| 130.0   | 30.0 | 0.0  | 0.8   | 0.0   | 2.8   | 3.7   | 0.0   | 0.0   | 10.0  | 0.0  | 3.2   | -    |
| 130.0   | 35.0 | 0.0  | 18.1  | 10.9  | 68.5  | 57.2  | 5.3   | 32.2  | 104.9 | 21.2 | 16.8  | -    |
| 130.0   | 40.0 | 5.9  | 30.9  | 95.7  | 13.5  | 175.5 | 66.7  | 94.7  | 99.3  | 58.0 | 32.0  | -    |
| 130.0   | 45.0 | -    | 27.6  | 288.9 | 195.1 | 17.9  | 46.9  | -     | -     | -    | -     | -    |
| 130.0   | 50.0 | 9.1  | 105.9 | 721.5 | 142.0 | 102.9 | 310.2 | 29.2  | 39.2  | 14.2 | 10.2  | -    |
| 130.0   | 52.0 | -    | 59.8  | -     | -     | -     | -     | -     | -     | -    | -     | -    |
| 130.0   | 55.0 | -    | 67.6  | 78.0  | 25.4  | 34.8  | -     | -     | -     | -    | -     | -    |
| 130.0   | 60.0 | -    | 45.4  | 72.5  | 51.5  | 168.8 | 5.6   | 16.9  | 15.7  | 24.7 | 193.9 | -    |
| 130.0   | 80.0 | 19.2 | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    |
| 133.0   | 25.0 | 0.0  | 4.9   | 12.0  | 1.4   | 0.0   | -     | 0.0   | 4.5   | 0.0  | 2.1   | -    |
| 133.0   | 30.0 | 5.6  | 10.5  | 68.2  | 10.0  | 0.0   | 38.1  | 0.0   | 38.3  | 3.7  | 2.0   | -    |
| 133.0   | 35.0 | -    | 32.5  | 44.0  | 43.5  | 11.0  | 2.3   | -     | -     | -    | -     | -    |
| 133.0   | 40.0 | 40.7 | 14.7  | 50.7  | 37.2  | 117.4 | 50.4  | -     | -     | -    | -     | -    |
| 133.0   | 45.0 | -    | 21.6  | 160.2 | 2.2   | 101.0 | 32.0  | -     | -     | -    | -     | -    |
| 133.0   | 50.0 | -    | 10.8  | 13.4  | 0.0   | -     | 12.1  | -     | -     | -    | -     | -    |
| 133.0   | 60.0 | 3.4  | 29.9  | 52.6  | -     | -     | -     | -     | -     | -    | -     | -    |
| 137.0   | 23.0 | 1.6  | 1.1   | 2.3   | 1.1   | 0.0   | 0.0   | 7.6   | 0.0   | 1.7  | 0.0   | -    |
| 137.0   | 30.0 | 0.0  | 1.3   | 0.0   | 0.0   | 3.7   | 0.0   | 0.0   | 9.4   | 15.5 | 0.0   | -    |
| 137.0   | 35.0 | -    | -     | 15.8  | 23.4  | 0.0   | 8.9   | -     | -     | -    | -     | -    |
| 137.0   | 40.0 | 19.8 | 74.0  | 215.9 | 2.5   | 49.2  | 4.7   | -     | -     | -    | -     | -    |
| 137.0   | 45.0 | -    | 19.3  | 14.4  | 174.0 | 11.2  | 22.5  | -     | -     | -    | -     | -    |
| 137.0   | 50.0 | 0.0  | -     | 75.0  | 10.4  | 91.8  | 136.9 | 104.0 | -     | -    | -     | -    |
| 137.0   | 60.0 | 3.2  | 5.5   | 120.2 | -     | -     | -     | -     | -     | -    | -     | -    |
| 140.0   | 35.0 | -    | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    |
| 140.0   | 40.0 | -    | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    |
| 140.0   | 50.0 | -    | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    |
| 143.0   | 35.0 | -    | -     | -     | -     | -     | -     | -     | -     | -    | -     | -    |

*Diogenichthys* spp.

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 75.0 | -    | -    | -    | 5.9 | -    | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 35.0 | -    | -    | 3.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Diogenichthys atlanticus*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 60.0    | 110.0 | -    | -    | -    | -    | -    | -    | -    | 0.0  | 2.5  | 0.0  | -    |
| 80.0    | 55.0  | 5.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 2.7  | -    |
| 80.0    | 100.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    |
| 83.0    | 85.0  | -    | -    | -    | 2.7  | -    | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -    | 2.2  | 8.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -    | -    | 8.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 75.0  | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 90.0    | 53.0  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 36.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 80.0  | 4.9  | 2.7  | 5.3  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 2.5  | 13.2 | 5.7  | 3.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | 0.0  | 5.5  | 32.2 | -    | 24.8 | 17.2 | -    | -    | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 0.0  | 0.0  | 2.8  | 6.5  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | -    | 16.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 3.0  | 6.0  | 21.1 | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | -    | 19.2 | -    | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 15.0 | 0.0  | 22.9 | 2.8  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | 18.4 | -    | -    | 5.8  | -    | -    | -    | -    | -    |
| 97.0    | 36.0  | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 3.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 2.6  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -    | -    | 0.0  | 6.1  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | -    | 15.9 | 6.3  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 6.4  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | -    | 7.3  | 9.1  | 2.3  | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 16.5 | 0.0  | 6.7  | 20.5 | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0  | -    | 0.0  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | 0.0  | -    | 0.0  | 7.4  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 2.8  | 6.4  | 0.0  | 0.0  | 8.4  | 13.2 | 3.2  | 5.0  | 7.9  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 59.2 | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 0.0  | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 0.0  | 0.0  | 7.5  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 2.8  | 5.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | 0.0  | 2.8  | -    | 2.4  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Diogenichthys atlanticus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 105.0   | 60.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 70.0 | 0.0  | 0.0  | -    | -    | -    | 26.0 | -    | -    | -    | -    | -    |
| 105.0   | 80.0 | 0.0  | -    | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 45.0 | -    | -    | -    | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 0.0  | 0.0  | 6.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0 | -    | -    | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0 | -    | -    | -    | -    | 3.6  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 0.0  | 0.0  | 6.8  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | 0.0  | 10.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 45.0 | -    | -    | -    | 14.8 | 0.0  | -    | 0.0  | 0.0  | 2.8  | 5.2  | -    |
| 110.0   | 50.0 | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 110.0   | 55.0 | -    | -    | -    | -    | 7.4  | -    | -    | -    | -    | -    | -    |
| 110.0   | 60.0 | -    | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 2.7  | 11.8 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | 0.0  | 0.0  | 6.1  | 12.4 | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 70.0 | 0.0  | -    | 0.0  | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 127.0   | 40.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    | 0.0  | 0.0  | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.4 | 0.0  | 0.0  | -    |

*Diogenichthys laternatus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 100.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 3.3  | 0.0  | -    |
| 100.0   | 75.0 | -    | -    | -    | 1.9  | -    | -    | -    | -    | -    | -    | -    |
| 100.0   | 90.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 70.0 | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 60.0 | 3.1  | 5.6  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 35.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 6.2  | -    |
| 107.0   | 60.0 | -    | -    | 10.4 | 5.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 9.5  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 110.0   | 50.0 | 14.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 3.5  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 3.3  | -    | 9.5  | 0.0  | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 8.7  | -    | 13.8 | 24.5 | 3.3  | 4.4  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | -    | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | -    | 11.0 | 1.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Diogenichthys laternatus* (cont.)

| STATION | JAN. | FEB.  | MAR. | APR.  | MAY   | JUNE  | JULY  | AUG. | SEP. | OCT.  | NOV. | DEC. |
|---------|------|-------|------|-------|-------|-------|-------|------|------|-------|------|------|
| 113.0   | 65.0 | -     | -    | 1.4   | 0.0   | 0.0   | -     | -    | -    | -     | -    | -    |
| 113.0   | 70.0 | 0.0   | -    | 0.0   | 0.0   | 2.9   | 0.0   | -    | -    | -     | -    | -    |
| 115.0   | 40.0 | 2.6   | -    | -     | -     | -     | -     | -    | -    | -     | -    | -    |
| 115.0   | 70.0 | 3.0   | -    | -     | -     | -     | -     | -    | -    | -     | 6.8  | -    |
| 117.0   | 35.0 | -     | 1.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 2.6  | -    |
| 117.0   | 40.0 | 3.2   | 1.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | -    | -     | -    | -    |
| 117.0   | 50.0 | 3.0   | 2.9  | 0.0   | 0.0   | 0.0   | 0.0   | -    | -    | -     | -    | -    |
| 117.0   | 60.0 | 0.0   | 5.4  | 0.0   | 0.0   | 0.0   | 0.0   | -    | -    | -     | -    | -    |
| 117.0   | 65.0 | -     | -    | 0.0   | 3.0   | 3.1   | -     | -    | -    | -     | -    | -    |
| 117.0   | 70.0 | 5.7   | -    | 0.0   | 0.0   | 0.0   | 0.0   | -    | -    | -     | -    | -    |
| 120.0   | 45.0 | 0.0   | 0.0  | 1.4   | 0.0   | 0.0   | 10.4  | 3.7  | 3.1  | 0.0   | 2.3  | -    |
| 120.0   | 50.0 | 5.8   | 18.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 5.0  | -    |
| 120.0   | 55.0 | -     | 11.9 | 3.0   | 0.0   | 0.0   | 2.7   | -    | -    | -     | -    | -    |
| 120.0   | 60.0 | 10.3  | 0.0  | 0.0   | 0.0   | 6.5   | 0.0   | 0.0  | 0.0  | 2.0   | 2.4  | -    |
| 120.0   | 65.0 | -     | 0.0  | 11.8  | 0.0   | 22.9  | -     | -    | -    | -     | -    | -    |
| 120.0   | 70.0 | 17.6  | 16.4 | 0.0   | 0.0   | 8.0   | 0.0   | 0.0  | 0.0  | 5.3   | 0.0  | -    |
| 120.0   | 80.0 | 11.7  | 1.9  | 0.0   | 4.7   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 120.0   | 90.0 | 0.0   | 0.0  | 0.0   | 0.0   | 3.0   | 0.0   | 0.0  | 0.0  | 21.4  | 28.9 | -    |
| 123.0   | 37.0 | 1.8   | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 2.3  | 0.0  | 0.0   | 0.0  | -    |
| 123.0   | 40.0 | 58.4  | 1.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 6.6   | 3.8  | -    |
| 123.0   | 50.0 | 6.9   | 1.5  | 0.0   | 8.9   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 123.0   | 55.0 | -     | 30.5 | 12.0  | 5.2   | 3.5   | -     | -    | -    | -     | -    | -    |
| 123.0   | 60.0 | 5.3   | 9.8  | 0.0   | 9.3   | 2.9   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 127.0   | 34.0 | 0.0   | 1.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 4.0   | -    | -    |
| 127.0   | 40.0 | 0.0   | 12.2 | 0.0   | 3.2   | 0.0   | 0.0   | 0.0  | 2.9  | -     | -    | -    |
| 127.0   | 45.0 | -     | 16.6 | 0.0   | 3.4   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 21.4 | -    |
| 127.0   | 50.0 | 3.0   | 1.6  | 29.5  | 6.3   | 28.6  | 0.0   | 0.0  | 0.0  | -     | -    | -    |
| 127.0   | 55.0 | -     | 0.0  | 8.8   | 0.0   | 0.0   | -     | -    | -    | -     | -    | -    |
| 127.0   | 60.0 | 49.4  | 13.8 | 0.0   | 0.0   | 25.9  | 105.1 | -    | -    | -     | -    | -    |
| 130.0   | 30.0 | 0.0   | 1.0  | 2.7   | 0.0   | 3.7   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 130.0   | 35.0 | 0.0   | 6.0  | 0.0   | 3.3   | 6.4   | 0.0   | 16.1 | 13.8 | 113.3 | 2.8  | -    |
| 130.0   | 40.0 | 29.7  | 22.0 | 55.1  | 2.7   | 0.0   | 11.6  | 0.0  | 55.5 | 16.1  | 3.2  | -    |
| 130.0   | 45.0 | -     | 16.6 | 163.7 | 5.4   | 0.0   | 22.2  | -    | -    | -     | -    | -    |
| 130.0   | 50.0 | 3.0   | 58.5 | 27.6  | 19.9  | 20.6  | 188.4 | 0.0  | 14.2 | 0.0   | 10.2 | -    |
| 130.0   | 52.0 | -     | 10.4 | -     | -     | -     | -     | -    | -    | -     | -    | -    |
| 130.0   | 55.0 | -     | 47.0 | 17.3  | 60.2  | 118.9 | -     | -    | -    | -     | -    | -    |
| 130.0   | 60.0 | 66.2  | 14.7 | 2.9   | 2.9   | 60.5  | 55.8  | 2.8  | 15.7 | 10.3  | 9.1  | -    |
| 130.0   | 70.0 | 29.0  | -    | -     | -     | -     | -     | -    | -    | -     | -    | -    |
| 130.0   | 80.0 | 92.8  | -    | -     | -     | -     | -     | -    | -    | -     | -    | -    |
| 133.0   | 25.0 | 1.8   | 18.5 | 12.0  | 0.0   | 0.0   | -     | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 133.0   | 30.0 | 3.7   | 0.0  | 62.5  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 133.0   | 35.0 | -     | 13.6 | 70.3  | 133.1 | 2.2   | 0.0   | -    | -    | -     | -    | -    |
| 133.0   | 40.0 | 217.0 | 2.6  | 17.9  | 45.2  | 0.0   | 6.3   | -    | -    | -     | -    | -    |
| 133.0   | 45.0 | -     | 8.1  | 8.4   | 11.0  | 6.1   | 0.0   | -    | -    | -     | -    | -    |
| 133.0   | 50.0 | 94.0  | 38.9 | 40.1  | 18.3  | -     | 63.6  | -    | -    | -     | -    | -    |
| 133.0   | 60.0 | 44.3  | 16.3 | 201.5 | -     | -     | -     | -    | -    | -     | -    | -    |

TABLE 4. (cont.)

*Diogenichthys laternatus* (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY | AUG.  | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|-------|-------|-------|-------|------|-------|------|------|------|------|
| 137.0   | 23.0 | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 6.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 34.2 | 0.0  | -    |
| 137.0   | 35.0 | -    | -     | 68.4  | 7.8   | 0.0   | 0.0  | -     | -    | -    | -    | -    |
| 137.0   | 40.0 | 23.1 | 12.8  | 113.1 | 2.5   | 0.0   | 0.0  | -     | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | -     | 49.0  | 155.7 | 0.0   | 0.0  | -     | -    | -    | -    | -    |
| 137.0   | 50.0 | 5.7  | 23.0  | 60.0  | 62.4  | 183.5 | 14.9 | 121.4 | -    | -    | -    | -    |
| 137.0   | 60.0 | 80.5 | -     | 16.0  | -     | -     | -    | -     | -    | -    | -    | -    |
| 140.0   | 35.0 | -    | 40.2  | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 140.0   | 40.0 | -    | 151.5 | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 140.0   | 50.0 | -    | 76.4  | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 143.0   | 26.0 | -    | 1.6   | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 143.0   | 30.0 | -    | 14.3  | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 143.0   | 35.0 | -    | 10.8  | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 147.0   | 20.0 | -    | 5.5   | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 147.0   | 25.0 | -    | 4.5   | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 147.0   | 30.0 | -    | 4.6   | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 150.0   | 25.0 | -    | 8.1   | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 150.0   | 30.0 | -    | 17.3  | -     | -     | -     | -    | -     | -    | -    | -    | -    |
| 150.0   | 40.0 | -    | 6.0   | -     | -     | -     | -    | -     | -    | -    | -    | -    |

*Electrona rissoi*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 97.0    | 80.0 | -    | -    | 0.0  | 0.0 | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 97.0    | 90.0 | -    | -    | 0.0  | 0.0 | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 100.0   | 80.0 | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0 | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

*Gonichthys tenuiculus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 107.0   | 60.0 | -    | -    | 3.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | -    | -    | 3.5  | 5.4 | 0.0  | 2.2  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 0.0  | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | 0.0  | 1.6  | 5.9  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 60.0 | 0.0  | 6.1  | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 40.0 | 5.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 9.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 1.6  | 3.1  | 0.0 | 0.0  | 8.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Gonichthys tenuiculus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0   | 55.0 | -    | 0.0  | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 5.4  | 2.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 1.4  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | 0.0  | 2.9  | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 3.1  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 5.7  | -    | 3.0  | 0.0 | 3.0  | 2.5  | 0.0  | -    | -    | -    | -    |
| 137.0   | 60.0 | 0.0  | 0.0  | 10.7 | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 35.0 | 2.7  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 40.0 | 3.0  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 50.0 | 5.5  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 40.0 | 3.0  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Hygophum* spp.

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 2.9  | 0.0 | 3.1  | -    | -    | -    | -    | -    | -    |
| 130.0   | 45.0 | -    | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 45.0 | -    | 0.0  | 5.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 0.0  | 2.7  | 0.0 | -    | 3.0  | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 3.2  | 0.0  | 0.0  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 3.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 140.0   | 35.0 | 2.7  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 40.0 | 9.1  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 143.0   | 30.0 | 2.9  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 147.0   | 30.0 | 2.3  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 30.0 | 4.9  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 40.0 | 14.9 | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Hygophum atratum*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0   | 90.0 | 0.0  | -    | 0.0  | 5.4 | 0.0  | 2.2  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -    | 0.0  | 3.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0   | 50.0 | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 9.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 3.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |



TABLE 4. (cont.)

*Hygophum atratum* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0   | 90.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 1.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 60.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 9.3  | 0.0  | 0.0  | 0.0 | 0.0  | 9.3  | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 14.6 | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 19.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 130.0   | 80.0 | 3.2  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 30.0 | 0.0  | 3.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 40.0 | 6.8  | 0.0  | 0.0  | 2.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0  | 2.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | 0.0  | 0.0  | 2.3 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 60.0 | 0.0  | -    | 6.0  | 0.0 | 8.9  | 2.5  | 2.9  | -    | -    | -    | -    |
| 140.0   | 50.0 | -    | 5.5  | 5.3  | -   | -    | -    | -    | -    | -    | -    | -    |
|         |      | 2.7  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Hygophum reinhardtii*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 93.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 80.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 100.0   | 90.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.7  | -    | -    | -    | -    | -    |
| 103.0   | 70.0 | -    | -    | 3.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 3.3  | -    | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 1.4  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | -    | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.8  | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 5.8  | -    |
| 127.0   | 50.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Loweina rara*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0   | 60.0 | 0.0  | 4.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 3.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 60.0 | 0.0  | 1.5  | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Loweina rara* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0 55.0 | -    | -    | 0.0  | 2.9  | 3.2 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0 70.0 | 8.7  | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0 45.0 | -    | -    | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 50.0 | 0.0  | 0.0  | -    | 3.0  | 0.0 | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    |

*Myctophum nitidulum*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 75.0  | -    | -    | -    | -    | 3.0 | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 2.7  | 0.0  | 2.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 0.0  | 3.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2  | 0.0  | 2.5  | 2.0  | -    |
| 103.0 40.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 103.0 65.0 | -    | -    | -    | -    | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0 60.0 | 2.8  | 0.0  | 0.0  | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0 80.0 | 0.0  | 0.0  | -    | -    | -   | -    | 2.4  | -    | -    | -    | -    | -    |
| 107.0 60.0 | -    | -    | -    | 3.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0 80.0 | -    | -    | -    | 3.1  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 70.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0 80.0 | 6.6  | 0.0  | -    | 0.0  | 0.0 | 6.2  | 2.5  | -    | -    | -    | -    | -    |
| 110.0 90.0 | 0.0  | 0.0  | -    | 0.0  | 2.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 65.0 | -    | -    | -    | 0.0  | 3.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0 60.0 | 0.0  | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | -    |
| 120.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 123.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 50.0 | 0.0  | -    | 1.6  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 60.0 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 130.0 45.0 | -    | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | 0.0  | 0.0  | -    |
| 130.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 3.2  | 0.0  | -    | -    | -    |
| 130.0 55.0 | -    | -    | 11.8 | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0 60.0 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    |

*Protomyctophum crockeri*

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0 90.0 | -    | -    | -    | -    | -   | -    | 6.2  | -    | -    | -    | -    | -    |
| 50.0 60.0 | -    | -    | -    | -    | -   | -    | 7.8  | -    | -    | -    | -    | -    |
| 50.0 70.0 | -    | -    | -    | -    | -   | -    | 8.8  | -    | -    | -    | -    | -    |
| 53.0 60.0 | -    | -    | -    | -    | -   | -    | 5.8  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 53.0    | 65.0  | -    | -    | -    | -    | 0.0  | 11.8 | -    | -    | -    | -    | -    |
| 57.0    | 60.0  | -    | -    | -    | -    | -    | 4.6  | -    | -    | -    | -    | -    |
| 60.0    | 55.0  | -    | -    | 0.0  | -    | 0.0  | -    | 0.0  | 3.2  | 0.0  | 0.0  | -    |
| 60.0    | 60.0  | -    | -    | 0.0  | -    | 0.0  | 0.0  | -    | 0.0  | 0.0  | 3.0  | -    |
| 60.0    | 70.0  | -    | -    | 11.8 | -    | 0.0  | 4.6  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 80.0  | -    | -    | 0.0  | 2.8  | -    | -    | -    | 0.0  | 0.0  | 19.3 | -    |
| 60.0    | 90.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | 8.9  | 0.0  | 9.0  | -    |
| 60.0    | 100.0 | -    | -    | -    | 2.8  | 0.0  | -    | -    | 0.0  | 5.6  | 0.0  | -    |
| 60.0    | 110.0 | -    | -    | -    | -    | -    | -    | -    | 7.5  | 0.0  | 2.9  | -    |
| 63.0    | 55.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | -    |
| 63.0    | 65.0  | -    | -    | -    | 0.0  | 2.8  | 10.6 | -    | -    | -    | -    | -    |
| 67.0    | 55.0  | -    | -    | 0.0  | 0.0  | 0.0  | 5.6  | 6.2  | 0.0  | 0.0  | 2.6  | -    |
| 67.0    | 65.0  | -    | -    | -    | -    | 0.0  | 13.2 | 13.2 | 0.0  | 12.4 | 0.0  | -    |
| 70.0    | 51.0  | -    | -    | 0.0  | 0.0  | 12.7 | 0.0  | 0.0  | 0.0  | -    | 2.5  | -    |
| 70.0    | 60.0  | -    | -    | 0.0  | 0.0  | 6.3  | 6.9  | 0.0  | 0.0  | 0.0  | 5.3  | -    |
| 70.0    | 70.0  | -    | -    | 4.9  | 7.4  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 70.0    | 80.0  | -    | -    | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  | 7.8  | 0.0  | 0.0  | -    |
| 70.0    | 90.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 73.0    | 60.0  | -    | -    | 0.0  | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 6.2  | -    | -    |
| 77.0    | 50.0  | -    | -    | 0.0  | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 77.0    | 55.0  | -    | -    | 2.4  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 60.0  | -    | -    | -    | 0.0  | 0.0  | 6.8  | -    | -    | -    | -    | -    |
| 77.0    | 65.0  | -    | -    | -    | 3.2  | -    | 0.0  | 0.0  | 3.3  | 9.5  | 0.0  | -    |
| 80.0    | 55.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | -    |
| 80.0    | 60.0  | 2.8  | 0.0  | 14.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 5.3  | -    |
| 80.0    | 70.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | 2.9  | 0.0  | 0.0  | 8.5  | 0.0  | -    |
| 80.0    | 80.0  | 2.9  | 0.0  | 0.0  | 0.0  | 5.0  | 0.0  | 5.9  | 0.0  | 2.5  | 0.0  | -    |
| 80.0    | 90.0  | 10.4 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 3.1  | 6.1  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 13.0 | -    | 0.0  | 0.0  | 2.8  | 0.0  | 2.7  | 0.0  | 0.0  | 3.0  | -    |
| 83.0    | 55.0  | 0.0  | -    | 0.0  | 6.3  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0  | -    | -    | 4.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 75.0  | -    | -    | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0  | -    | -    | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 85.0  | -    | -    | 6.5  | 10.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    | -    |
| 85.0    | 40.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 6.8  | 0.0  | -    |
| 85.0    | 45.0  | -    | -    | -    | -    | -    | 8.8  | -    | -    | -    | -    | -    |
| 85.0    | 50.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 11.4 | 0.0  | 9.0  | 0.0  | -    |
| 85.0    | 70.0  | 5.2  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 85.0    | 90.0  | -    | -    | -    | -    | 10.9 | 6.5  | -    | -    | -    | -    | -    |
| 87.0    | 55.0  | -    | -    | 5.8  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0  | -    | -    | 0.0  | 8.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -    | -    | 7.7  | -    | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 90.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 90.0    | 45.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 90.0    | 53.0  | 0.0  | 6.8  | 3.9  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 3.1  | 5.5  | 1.8  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 90.0    | 65.0  | -    | -    | -    | 0.0  | 3.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 70.0  | 2.5  | 0.0  | 3.0  | -    | 12.6 | 2.5  | 0.0  | 0.0  | 2.7  | 8.2  | -    |
| 90.0    | 75.0  | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 2.5  | 0.0  | 0.0  | 16.7 | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 16.4 | 0.0  | 13.2 | 5.7  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 2.9  | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 2.3  | 0.0  | -    |
| 93.0    | 40.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 93.0    | 50.0  | 0.0  | 5.2  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 60.0  | 2.6  | 2.8  | 2.8  | 3.3  | 1.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | -    | 0.0  | 6.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 2.6  | 0.0  | 0.0  | 0.0  | 7.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | -    | 3.2  | -    | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 3.1  | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 3.7  | -    | -    | 2.9  | -    | -    | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 2.8  | 0.0  | -    | 0.0  | 0.0  | 2.5  | 2.0  | 0.0  | 0.0  | -    |
| 97.0    | 40.0  | 3.0  | 0.0  | 2.9  | 18.9 | 0.0  | 3.0  | 0.0  | 0.0  | 9.6  | 4.8  | -    |
| 97.0    | 45.0  | -    | -    | -    | 10.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 2.6  | 0.0  | 3.0  | 7.0  | 1.7  | 0.0  | 0.0  | 0.0  | 5.9  | 0.0  | -    |
| 97.0    | 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 5.2  | 8.2  | 5.7  | 0.0  | 3.2  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 8.6  | 11.0 | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 3.3  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 3.3  | 0.0  | 14.9 | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | -    | 0.0  | 9.8  | 0.0  | 1.6  | 8.2  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 100.0   | 55.0  | -    | -    | -    | 3.5  | 13.2 | 10.0 | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 0.0  | 0.0  | 6.0  | 1.5  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 4.8  | 3.7  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 3.2  | 2.4  | 3.3  | 2.3  | 12.1 | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 2.8  | 3.2  | 0.0  | 6.9  | 0.0  | 0.0  | 3.2  | 2.5  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 6.3  | 0.0  | 3.7  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 0.0  | -    | 0.0  | 5.9  | -    | -    | -    | -    | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | 5.5  | 8.6  | 0.0  | 2.4  | -    |
| 103.0   | 50.0  | -    | -    | 0.0  | 0.0  | 2.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 55.0  | -    | -    | 0.0  | -    | 3.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 0.0  | 3.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 2.7  | 5.8  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 103.0   | 80.0 | -    | -    | 3.3  | 0.0  | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0 | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 35.0 | 8.4  | 0.0  | -    | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 40.0 | 5.0  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 50.0 | 2.4  | 2.7  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 55.0 | -    | -    | -    | -    | -    | 2.4  | -    | -    | -    | -    | -    |
| 105.0   | 60.0 | 2.8  | 3.1  | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    |
| 105.0   | 70.0 | 5.3  | 2.7  | -    | -    | -    | 11.6 | -    | -    | -    | -    | -    |
| 105.0   | 80.0 | 2.4  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 35.0 | -    | -    | 5.9  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 8.1  | 0.0  | -    |
| 107.0   | 40.0 | -    | -    | 0.0  | 2.5  | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 45.0 | -    | -    | -    | 4.4  | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 0.0  | 0.0  | 9.1  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | -    | -    | 6.1  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0 | -    | -    | 0.0  | 10.3 | 5.9  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0 | -    | -    | 3.2  | 13.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0 | -    | -    | 0.0  | 5.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 19.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0 | 3.1  | 0.0  | 0.0  | 0.0  | 25.3 | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 3.0  | 0.0  | 3.6  | 0.0  | 0.0  | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -    | 3.2  | 6.1  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 6.9  | 2.7  | 6.7  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 30.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0 | 3.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 4.8  | 6.1  | 3.2  | 0.0  | 0.0  | 0.0  | 3.4  | 5.6  | -    |
| 113.0   | 45.0 | -    | -    | 2.9  | 2.5  | 7.1  | 2.9  | 0.0  | -    | -    | -    | -    |
| 113.0   | 50.0 | 0.0  | 3.1  | 6.4  | 9.5  | 0.0  | 2.6  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 0.0  | 3.1  | 0.0  | 7.6  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 0.0  | 0.0  | 2.8  | 0.0  | 6.5  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 7.2  | 0.0  | 6.5  | -    | -    | -    | -    | -    | -    |
| 115.0   | 50.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.2  | 0.0  | -    |
| 117.0   | 45.0 | -    | 2.8  | 0.0  | 0.0  | 0.0  | 2.5  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 3.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 12.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | -    | 5.4  | 3.1  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | -    | -    | 4.5  | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 2.3  | -    |
| 120.0   | 50.0 | 0.0  | 1.5  | 0.0  | 3.1  | 2.8  | 6.4  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 2.6  | 6.2  | 2.7  | -    | 6.2  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 2.1  | 5.3  | -    | -    | -    | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0  | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Protomyctophum crockeri* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0   | 70.0 | 0.0  | 0.0  | 3.0  | 0.0 | 2.7  | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 0.0  | 0.0  | 4.7 | 6.2  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 3.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 1.5  | 0.0 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 5.8  | 8.2 | 6.1  | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 1.2  | 2.8  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0  | 4.8  | 2.8  | -    |
| 127.0   | 40.0 | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | 2.8  | 8.8  | 0.0  | -    | -    |
| 127.0   | 50.0 | 0.0  | 0.0  | 8.9  | 3.2 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 3.1  | 0.0  | 5.7  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 2.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.6  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -    | 0.0  | 0.0 | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    |

*Symbolophorus californiensis*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 80.0    | 80.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 9.9  | 0.0  | -    |
| 80.0    | 90.0  | 0.0  | -    | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 9.1  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 0.0  | -    | 0.0  | 0.0  | 2.8  | 6.5  | 16.1 | 9.3  | 3.2  | 0.0  | -    |
| 83.0    | 75.0  | -    | -    | -    | 2.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0  | -    | -    | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 85.0  | -    | -    | -    | 5.4  | -    | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -    | 2.2  | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -    | -    | 8.6  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -    | -    | 32.1 | 2.5  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 35.0  | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 53.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 2.7  | 5.7  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 65.0  | -    | -    | -    | 0.0  | 3.4  | -    | -    | 0.0  | -    | -    | -    |
| 90.0    | 70.0  | 0.0  | 0.0  | 81.0 | -    | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -    | -    | 8.9  | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 4.9  | 8.0  | 44.7 | 12.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 22.5 | 28.9 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 17.6 | -    | 8.3  | 8.6  | -    | -    | -    | -    | -    |
| 93.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -    | -    | -    | 0.0  | 0.0  | 4.6  | -    | -    | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 2.6  | 0.0  | 5.5  | 9.8  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -    | -    | 32.6 | 3.3  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Symbolophorus californiensis* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 93.0    | 70.0  | 0.0  | 0.0  | 9.1  | 9.0  | 21.1 | 3.1  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | -    | 35.2 | -    | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 59.8 | 0.0  | 3.8  | 11.3 | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | 43.0 | -    | -    | 11.7 | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 3.0  | 0.0  | 0.0  | 3.2  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -    | -    | -    | 10.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 3.3  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -    | -    | 0.0  | 24.5 | 2.7  | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | 0.0  | 0.0  | 6.3  | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 2.8  | 15.3 | 0.0  | 19.1 | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 14.5 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 5.7  | 0.0  | 6.1  | 16.0 | -    | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -    | 42.8 | 2.8  | 0.0  | 11.7 | -    | -    | -    | -    | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 0.0  | 3.3  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 4.0  | 3.2  | 0.0  | 0.0  | 0.0  | 3.1  | 5.7  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | 24.3 | 0.0  | 7.4  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 4.7  | 3.3  | 0.0  | 3.0  | 3.2  | 0.0  | 0.0  | 3.3  | 3.0  | -    |
| 100.0   | 75.0  | -    | -    | -    | 1.9  | -    | -    | -    | -    | -    | -    | -    |
| 100.0   | 80.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 5.6  | 8.8  | 0.0  | 2.5  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 2.7  | 0.0  | 0.0  | 3.7  | 13.5 | -    | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 13.1 | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -    | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 3.2  | 8.9  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 65.0  | -    | -    | -    | 0.0  | 25.6 | -    | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 3.2  | 0.0  | 9.5  | -    | -    | -    | -    | -    | -    |
| 103.0   | 75.0  | -    | -    | -    | 4.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 0.0  | 0.0  | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 9.5  | 5.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -    | -    | -    | -    | -    | 4.9  | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 0.0  | 2.8  | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 0.0  | 0.0  | -    | -    | -    | 8.7  | -    | -    | -    | -    | -    |
| 105.0   | 90.0  | -    | -    | -    | -    | -    | 6.0  | 0.0  | 0.0  | 2.7  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 45.0  | -    | -    | -    | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | -    | 10.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -    | -    | 0.0  | -    | 7.2  | -    | -    | -    | -    | -    | -    |
| 107.0   | 65.0  | -    | -    | 6.3  | 0.0  | 3.4  | -    | -    | -    | -    | -    | -    |
| 107.0   | 70.0  | -    | -    | 6.1  | 13.5 | 5.9  | -    | -    | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | -    | 9.9  | 2.6  | -    | 0.0  | 0.0  | -    | -    | -    |
| 110.0   | 45.0  | -    | -    | -    | 11.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 14.8 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Symbolophorus californiensis* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0   | 55.0 | -    | -    | -    | -   | 3.7  | -    | -    | -    | -    | -    | -    |
| 110.0   | 60.0 | 0.0  | 7.3  | 2.9  | 5.9 | 3.7  | 2.9  | 3.6  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 65.0 | -    | -    | -    | -   | 3.7  | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 3.1  | 0.0  | 3.0  | 0.0 | 0.0  | 4.5  | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 2.7  | -    | 0.0  | 3.1 | 0.0  | 5.1  | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -    | 0.0  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 45.0 | -    | -    | 0.0  | 7.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | 0.0  | 0.0  | 3.2  | 3.1 | 7.9  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | -    | -    | 3.3  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 2.8  | 0.0  | 4.3  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -    | 1.4  | 3.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.7  | -    | -    | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | -    | 5.5  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 0.0  | 0.0  | 7.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 0.0  | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 2.9 | 3.3  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 60.0 | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |

*Tarletonbeania crenularis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0    | 50.0 | -    | -    | -    | -   | -    | 8.8  | -    | -    | -    | -    | -    |
| 40.0    | 60.0 | -    | -    | -    | -   | -    | 10.7 | -    | -    | -    | -    | -    |
| 40.0    | 70.0 | -    | -    | -    | -   | -    | 11.9 | -    | -    | -    | -    | -    |
| 40.0    | 80.0 | -    | -    | -    | -   | -    | 12.8 | -    | -    | -    | -    | -    |
| 47.0    | 60.0 | -    | -    | -    | -   | -    | 25.5 | -    | -    | -    | -    | -    |
| 50.0    | 50.0 | -    | -    | -    | -   | 33.4 | 14.5 | -    | -    | -    | -    | -    |
| 50.0    | 55.0 | -    | -    | -    | -   | -    | 24.6 | -    | -    | -    | -    | -    |
| 50.0    | 60.0 | -    | -    | -    | -   | -    | 5.2  | -    | -    | -    | -    | -    |
| 53.0    | 52.0 | -    | -    | -    | -   | 13.7 | -    | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

*Tarletonbeania crenularis* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 53.0    | 55.0  | -    | -    | -    | -    | 22.9 | 22.8 | -    | -    | -    | -    | -    |
| 53.0    | 60.0  | -    | -    | -    | -    | -    | 23.1 | -    | -    | -    | -    | -    |
| 53.0    | 65.0  | -    | -    | -    | -    | 28.2 | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 55.0  | -    | -    | -    | -    | 2.2  | 13.3 | -    | -    | -    | -    | -    |
| 57.0    | 60.0  | -    | -    | -    | -    | -    | 18.4 | -    | -    | -    | -    | -    |
| 57.0    | 65.0  | -    | -    | -    | -    | 16.0 | 6.0  | -    | -    | -    | -    | -    |
| 60.0    | 55.0  | -    | 0.0  | -    | -    | 0.0  | -    | 0.0  | 3.2  | 13.0 | 2.1  | -    |
| 60.0    | 60.0  | -    | 15.8 | -    | -    | 0.0  | 7.3  | -    | 5.0  | 4.9  | 63.0 | -    |
| 60.0    | 65.0  | -    | -    | -    | -    | 12.2 | -    | -    | -    | -    | -    | -    |
| 60.0    | 70.0  | -    | 11.8 | -    | -    | 5.8  | 7.0  | -    | 5.9  | 5.0  | 8.8  | -    |
| 60.0    | 80.0  | -    | 0.0  | 5.5  | -    | -    | -    | -    | 16.2 | 5.5  | 22.1 | -    |
| 60.0    | 90.0  | -    | 0.0  | 23.3 | 0.0  | 0.0  | 6.0  | -    | 8.9  | 2.4  | 14.9 | -    |
| 60.0    | 100.0 | -    | -    | 11.4 | 0.0  | 0.0  | -    | -    | 2.2  | 2.8  | 5.0  | -    |
| 63.0    | 52.0  | -    | -    | -    | -    | -    | 0.0  | -    | 5.0  | 0.0  | 14.3 | -    |
| 63.0    | 55.0  | -    | -    | -    | -    | 8.0  | 0.0  | 0.0  | 1.1  | 0.0  | 2.3  | -    |
| 63.0    | 60.0  | -    | -    | -    | -    | 17.4 | 7.3  | 19.7 | 4.5  | 66.7 | 5.4  | -    |
| 63.0    | 65.0  | -    | -    | -    | -    | 5.7  | 0.0  | -    | -    | -    | -    | -    |
| 67.0    | 50.0  | -    | -    | 2.9  | 0.0  | 0.0  | -    | 0.0  | 1.6  | -    | 6.5  | -    |
| 67.0    | 55.0  | -    | 24.1 | 12.5 | 5.4  | 5.4  | 17.2 | 6.2  | 4.5  | 48.9 | 10.5 | -    |
| 67.0    | 60.0  | -    | -    | -    | 30.6 | 3.2  | 3.2  | 6.6  | 69.7 | 37.1 | 16.0 | -    |
| 67.0    | 65.0  | -    | -    | -    | 0.0  | 0.0  | 6.0  | 11.0 | 0.0  | -    | 35.4 | -    |
| 70.0    | 51.0  | -    | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    | -    |
| 70.0    | 55.0  | -    | 2.7  | 11.3 | 0.0  | 0.0  | 6.9  | 35.5 | 4.8  | 5.8  | 26.7 | -    |
| 70.0    | 60.0  | -    | 0.0  | 0.0  | 12.7 | 16.9 | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 65.0  | -    | -    | 34.1 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 70.0  | -    | 0.0  | 0.0  | 12.6 | 15.6 | 15.6 | 12.6 | 4.8  | 11.6 | 11.2 | -    |
| 70.0    | 80.0  | -    | 27.1 | 7.4  | 0.0  | 3.1  | 3.1  | 2.6  | 7.8  | 3.1  | 8.2  | -    |
| 70.0    | 90.0  | -    | 20.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 100.0 | -    | -    | 5.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 73.0    | 50.0  | -    | 0.0  | 5.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.8 | -    | -    |
| 73.0    | 55.0  | -    | -    | 5.7  | 17.5 | 0.0  | 19.9 | -    | -    | -    | -    | -    |
| 73.0    | 60.0  | -    | -    | 14.9 | -    | -    | 63.3 | 0.0  | 18.1 | 68.6 | -    | -    |
| 77.0    | 50.0  | -    | 3.0  | 32.4 | 0.0  | 0.0  | 24.3 | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 55.0  | -    | 16.7 | 0.0  | 12.8 | 24.5 | 24.5 | 12.4 | 0.0  | 19.5 | 28.8 | -    |
| 77.0    | 60.0  | -    | -    | 40.7 | 0.0  | 0.0  | 6.8  | -    | -    | -    | -    | -    |
| 77.0    | 65.0  | -    | -    | 35.0 | -    | 0.0  | 19.8 | 0.0  | 9.8  | 15.9 | 10.8 | -    |
| 80.0    | 55.0  | 0.0  | 26.5 | 2.8  | 0.0  | 0.0  | 0.0  | 11.5 | 0.0  | 3.0  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | 16.9 | 2.4  | 54.9 | 13.9 | 13.9 | 19.7 | 10.7 | 10.3 | 2.7  | -    |
| 80.0    | 65.0  | -    | -    | -    | 38.3 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 80.0    | 70.0  | -    | 39.0 | 2.7  | 34.9 | 0.0  | 0.0  | 3.0  | 2.8  | 5.7  | 0.0  | -    |
| 80.0    | 80.0  | -    | 0.0  | 9.5  | 7.6  | 0.0  | 0.0  | 54.1 | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 80.0    | 90.0  | 0.0  | 73.3 | 13.3 | 8.6  | 2.7  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 5.2  | 0.0  | 21.5 | 28.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 55.0  | -    | 10.1 | 28.4 | 45.2 | 0.0  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Tarletonbeania crenularis* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 83.0    | 60.0 | -    | -    | 2.9  | 67.1 | 10.6  | -    | -    | -    | -    | -    | -    |
| 83.0    | 65.0 | -    | -    | -    | 33.5 | -     | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -    | -    | 17.1 | 87.3 | 29.4  | -    | -    | -    | -    | -    | -    |
| 83.0    | 75.0 | -    | -    | -    | 2.9  | 0.0   | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0 | -    | -    | 19.2 | 2.7  | 114.5 | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0 | -    | -    | 17.4 | 2.8  | 16.6  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0 | 0.0  | 0.0  | -    | -    | -     | 7.2  | 5.6  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 40.0 | 0.0  | 6.6  | -    | -    | -     | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 45.0 | -    | -    | -    | -    | -     | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 50.0 | 0.0  | 0.0  | -    | -    | -     | 38.5 | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 55.0 | -    | -    | -    | -    | -     | 0.0  | 11.4 | 8.5  | 0.0  | 0.0  | -    |
| 85.0    | 60.0 | 0.0  | 8.3  | -    | -    | -     | 13.6 | -    | -    | -    | -    | -    |
| 85.0    | 70.0 | 2.6  | 9.1  | -    | -    | -     | 12.8 | -    | -    | -    | -    | -    |
| 85.0    | 80.0 | -    | -    | -    | -    | -     | 6.5  | -    | -    | -    | -    | -    |
| 85.0    | 90.0 | -    | -    | -    | -    | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | 9.5  | 0.0  | 16.6  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0 | -    | -    | 0.0  | 0.0  | 14.5  | -    | -    | -    | -    | -    | -    |
| 87.0    | 45.0 | -    | -    | 0.0  | 0.0  | 16.9  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -    | -    | 6.8  | 8.0  | 1.6   | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -    | -    | -    | 31.0 | 125.1 | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0 | -    | -    | 5.8  | 68.6 | 53.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0 | -    | -    | 0.0  | 49.1 | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -    | -    | 0.0  | 26.0 | 78.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 75.0 | -    | -    | -    | 2.9  | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -    | -    | 3.2  | 0.0  | 8.6   | -    | -    | -    | -    | -    | -    |
| 87.0    | 90.0 | -    | -    | 2.6  | -    | -     | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 10.2 | 5.4   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 0.0  | 7.2  | 12.3 | 10.9 | 26.9  | 24.6 | 0.0  | 2.6  | 3.5  | 0.0  | -    |
| 90.0    | 31.0 | -    | -    | -    | -    | 9.0   | -    | -    | -    | -    | -    | -    |
| 90.0    | 33.0 | -    | -    | -    | -    | 36.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 35.0 | -    | -    | -    | -    | 23.6  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 5.2  | 3.2  | 21.5  | 34.8 | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 39.0 | -    | -    | -    | -    | 14.8  | -    | -    | -    | -    | -    | -    |
| 90.0    | 41.0 | -    | -    | -    | -    | 24.6  | -    | -    | -    | -    | -    | -    |
| 90.0    | 45.0 | 2.4  | 2.8  | 43.0 | 7.0  | 9.3   | 0.0  | 0.0  | 7.1  | 3.4  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 0.0  | 11.7 | 14.6 | 57.1  | 42.3 | 11.6 | 14.3 | 5.9  | 0.0  | -    |
| 90.0    | 60.0 | 0.0  | 11.3 | 34.0 | 0.0  | 6.1   | 8.1  | 0.0  | 0.0  | 0.0  | 10.5 | -    |
| 90.0    | 70.0 | 0.0  | 0.0  | 0.0  | -    | 0.0   | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8   | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.9   | 8.9  | -    | -    | -    | -    | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 2.4  | 2.6  | 2.6   | 0.0  | 5.1  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 5.0  | 3.0  | 6.4  | 24.7  | 8.3  | 4.7  | 6.8  | 0.0  | 0.0  | -    |
| 93.0    | 35.0 | -    | -    | -    | 65.4 | 22.5  | 15.7 | -    | -    | -    | -    | -    |
| 93.0    | 40.0 | 0.0  | 2.4  | 21.6 | 16.8 | 21.2  | 11.4 | 2.6  | 3.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0 | -    | -    | -    | 19.4 | 14.1  | 37.0 | -    | -    | -    | -    | -    |
| 93.0    | 50.0 | 4.7  | 2.9  | 6.3  | 19.0 | 38.2  | 5.2  | 5.5  | 5.1  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Tarletonbeania crenularis* (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 93.0    | 55.0  | -    | -    | -    | 34.9 | 91.0 | 42.3 | -    | -    | -    | -    | -    |
| 93.0    | 60.0  | 0.0  | 16.7 | 11.1 | 32.7 | 3.7  | 27.5 | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 7.5  | 0.0  | 3.8  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 30.0  | 0.0  | 0.0  | -    | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0    | 32.0  | 0.0  | 0.0  | 0.0  | -    | 21.3 | 6.8  | 7.6  | 12.2 | 3.2  | 0.0  | -    |
| 97.0    | 35.0  | -    | -    | -    | 25.8 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0  | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 15.8 | 18.4 | 9.1  | 5.7  | 3.8  | 3.2  | 0.0  | -    |
| 97.0    | 45.0  | -    | -    | -    | 85.8 | 11.7 | 5.9  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 5.3  | 5.9  | 0.0  | 38.1 | 19.6 | 13.8 | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -    | -    | 7.0  | 15.3 | 8.0  | -    | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 0.0  | 8.3  | 19.5 | 10.5 | -    | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -    | -    | 4.0  | 15.7 | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 3.7  | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.9  | 0.0  | -    |
| 100.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0  | -    | -    | -    | -    | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 2.5  | 10.8 | 6.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0  | -    | -    | -    | 4.7  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 3.3  | 2.3  | 0.0  | 5.4  | 0.0  | 6.2  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 0.0  | 3.3  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -    | -    | -    | 0.0  | 3.7  | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | -    |
| 100.0   | 100.0 | -    | -    | 3.3  | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 3.7  | 0.0  | 0.8  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0  | 1.4  | -    | 5.9  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 2.7  | 2.8  | -    | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 103.0   | 45.0  | -    | -    | -    | 4.5  | -    | -    | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -    | 3.0  | 5.7  | 5.6  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -    | 0.0  | 4.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 0.0  | 2.5  | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 0.0  | 0.0  | -    | -    | -    | 1.8  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 13.3 | -    | -    | -    | 3.3  | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 3.2  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0   | 45.0  | -    | -    | -    | 2.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0  | -    | -    | 0.0  | 3.4  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0  | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -    | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 0.0  | 6.5  | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Synodus spp.*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT.  | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|-------|------|------|
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0   | 1.6  | -    |
| 107.0   | 35.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0   | 3.1  | -    |
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 20.2 | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.3   | 22.2 | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -     | 3.5  | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0   | 3.3  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2   | 5.0  | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -     | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 10.3 | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 3.0  | -    | -     | -    | -    |
| 119.0   | 33.0 | -    | -    | -    | -   | -    | -    | 8.8  | -    | -     | -    | -    |
| 120.0   | 25.0 | 4.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.3  | 4.7   | 0.0  | -    |
| 120.0   | 30.0 | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 13.3 | 7.9  | 12.0  | 81.4 | -    |
| 120.0   | 35.0 | 5.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 16.4  | 24.5 | -    |
| 120.0   | 45.0 | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 5.0  | -    | -     | -    | -    |
| 123.0   | 37.0 | 3.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3   | 31.8 | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 2.2   | 0.0  | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.4  | 1.5   | 1.3  | -    |
| 127.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0   | -    | -    |
| 130.0   | 30.0 | 1.7  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.5  | 157.5 | 11.1 | -    |
| 130.0   | 35.0 | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 9.4   | 0.0  | -    |
| 133.0   | 25.0 | 18.0 | 3.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 23.6  | 40.3 | -    |
| 133.0   | 30.0 | 5.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 35.0  | 41.8 | -    |
| 133.0   | 40.0 | 6.8  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -     | -    | -    |
| 137.0   | 23.0 | 11.0 | 2.6  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 6.8  | 108.8 | 2.1  | -    |
| 137.0   | 30.0 | 0.0  | 96.8 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 34.2  | 3.3  | -    |
| 137.0   | 40.0 | 19.8 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 147.0   | 20.0 | -    | 1.4  | -    | -   | -    | -    | -    | -    | -     | -    | -    |

*Merluccius productus*

| STATION | JAN. | FEB. | MAR.   | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|--------|------|------|------|------|------|------|------|------|------|
| 60.0    | 80.0 | -    | -      | 3.4  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 90.0 | -    | -      | 17.4 | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 70.0 | -    | -      | 4.4  | 22.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 80.0 | -    | -      | 12.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0 | -    | -      | 10.4 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 60.0 | -    | -      | 5.4  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 55.0 | -    | -      | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0 | 0.0  | 0.0    | 10.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0 | 0.0  | 8.4    | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0 | 0.0  | 2386.3 | 2.7  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0 | 0.0  | 134.5  | 2.4  | 9.8  | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 90.0 | 0.0  | -      | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Merluccius productus* (cont.)

| STATION | JAN.  | FEB. | MAR.   | APR.   | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|--------|--------|------|------|------|------|------|------|------|------|
| 80.0    | 100.0 | 0.0  | -      | 0.0    | 2.7  | 0.0  | 0.0  | 0.0  | 6.2  | 0.0  | 0.0  | -    |
| 83.0    | 55.0  | -    | -      | 17.6   | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0  | -    | -      | 2.9    | 15.5 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0  | -    | -      | 2.2    | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0  | 4.6  | 16.0   | -      | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 40.0  | 2.5  | 44.2   | -      | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 0.0  | 14.5   | -      | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 70.0  | 0.0  | 0.0    | -      | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 87.0    | 35.0  | -    | -      | 3.8    | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0  | -    | -      | 0.0    | 3.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0  | -    | -      | 2.7    | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0  | -    | -      | -      | 6.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0  | -    | -      | 20.3   | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0  | -    | -      | -      | 6.1  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0  | -    | -      | 37.3   | 8.7  | 11.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -    | -      | 83.5   | 2.5  | 2.9  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0    | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 2.4  | 7.2    | 0.0    | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0  | 0.0  | 8.1    | 10.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 41.0  | -    | -      | -      | -    | 6.1  | -    | -    | -    | -    | -    | -    |
| 90.0    | 45.0  | 4.8  | 2416.8 | 56.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0  | 0.0  | 2136.2 | 97.3   | 11.7 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 188.9  | 61.8   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 65.0  | -    | -      | -      | 6.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 70.0  | 0.0  | 144.3  | 2922.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -      | -      | 26.7 | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 3156.2 | 165.7  | 16.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 1079.6 | 1935.0 | 10.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -      | 993.3  | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 4.2  | 13.0   | 21.6   | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 3.9  | 155.0  | 35.4   | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0  | 0.0  | 257.0  | 74.2   | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -    | -      | -      | 0.0  | 7.1  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 2753.5 | 369.3  | 3.2  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -    | -      | -      | 2.9  | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 60.0  | 0.0  | 633.8  | 385.0  | 3.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 65.0  | -    | -      | -      | 29.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 82.6   | 158.1  | 26.9 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -      | -      | 38.4 | -    | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -      | 1017.3 | 25.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -      | 475.8  | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 30.0  | 0.0  | 0.0    | -      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0    | 32.0  | 2.4  | 293.5  | 36.9   | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 35.0  | -    | -      | -      | 7.4  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 273.0  | 46.1   | 6.3  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -    | -      | -      | 10.7 | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    |

TABLE 4. (cont.)

*Merluccius productus* (cont.)

| STATION | JAN.  | FEB. | MAR.   | APR.   | MAY    | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|--------|--------|--------|------|------|------|------|------|------|------|
| 97.0    | 50.0  | 0.0  | 152.2  | 8.0    | 47.5   | 5.7  | 7.6  | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -      | -      | -      | 7.0  | 6.1  | 0.0  | -    | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 48.9   | 2066.8 | 233.6  | 8.3  | 1.4  | 0.0  | -    | -    | -    | -    |
| 97.0    | 65.0  | -    | -      | -      | -      | 4.0  | 9.4  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 2.6  | 0.0    | 1364.5 | 142.5  | 3.8  | 0.0  | 0.0  | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -      | -      | 2542.2 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 97.0    | 90.0  | -    | -      | -      | 690.9  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | -      | 14.8   | 17.6   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0  | -    | 2.3    | 36.5   | 29.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0  | 0.0  | 67.8   | 57.1   | 53.3   | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | -    | 0.0    | 9.1    | 84.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 60.0  | -    | 0.0    | 507.0  | 57.6   | 6.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 2.8    | 11.3   | 9.6    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0    | 947.9  | 22.1   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -      | -      | 219.8  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -      | -      | 11.2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -      | -      | 25.5   | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 45.0  | -    | -      | -      | -      | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -      | -      | 184.1  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -      | -      | 18.9   | 0.0  | 5.6  | -    | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -      | -      | 25.4   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -    | -      | -      | 59.4   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -      | -      | 231.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 0.0  | 0.0    | 33.4   | -      | -    | -    | 0.0  | -    | -    | -    | -    |
| 105.0   | 40.0  | 0.0  | 0.0    | 9.8    | -      | -    | -    | 0.0  | -    | -    | -    | -    |
| 105.0   | 50.0  | 0.0  | 0.0    | 92.8   | -      | -    | -    | 0.0  | -    | -    | -    | -    |
| 105.0   | 60.0  | 0.0  | 0.0    | 2.8    | -      | -    | -    | 0.0  | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -      | -      | 28.7   | 17.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0  | -    | -      | -      | 6.3    | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 107.0   | 50.0  | -    | -      | -      | 25.1   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -      | -      | 33.8   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | 6.9    | -      | 6.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0  | 0.0  | 830.8  | 21.8   | 6.2    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 5.1    | 40.9   | 19.9   | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 0.0    | 324.5  | 5.9    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 60.0  | -    | 0.0    | 26.6   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0  | 0.0  | 0.0    | 5.4    | 41.3   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 113.0   | 30.0  | -    | 36.3   | 21.3   | 0.0    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0  | -    | 339.7  | 649.0  | 28.7   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 40.0  | -    | 3600.0 | 2.8    | 20.3   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 45.0  | -    | -      | -      | 20.5   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0  | -    | 0.0    | 18.4   | 44.7   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 55.0  | -    | -      | -      | 6.7    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 60.0  | -    | 0.0    | 24.7   | 28.3   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0  | -    | -      | -      | 25.9   | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 70.0  | -    | 0.0    | -      | 3.1    | 3.2  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Merluccius productus* (cont.)

| STATION | JAN. | FEB.  | MAR.  | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|-------|-------|------|-----|------|------|------|------|------|------|------|
| 117.0   | 26.0 | 1.5   | 0.0   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | 0.0   | 1.4   | 0.0  | 0.0 | 0.0  | 0.0  | 2.4  | 0.0  | 8.6  | 0.0  | -    |
| 117.0   | 35.0 | 2.5   | 32.3  | 21.0 | 0.0 | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | -    |
| 117.0   | 40.0 | 3.2   | 42.1  | 3.0  | 0.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | -     | 27.7  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 3.0   | 103.7 | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0   | 116.1 | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -     | -     | 4.1  | 0.0 | 0.0  | -    | 10.5 | -    | -    | -    | -    |
| 118.5   | 30.0 | -     | -     | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 118.5   | 35.0 | -     | -     | -    | -   | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 25.0 | 3.1   | 0.0   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 16.1  | 24.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 10.5  | 7.1   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 40.0 | -     | 0.0   | 0.0  | 1.3 | 0.0  | -    | 2.5  | -    | -    | -    | -    |
| 120.0   | 43.0 | -     | -     | -    | -   | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 45.0 | 2.6   | 41.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0   | 3.1   | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -     | 2.9   | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 60.0 | 0.0   | 0.0   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 70.0 | 0.0   | 0.0   | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 0.0   | 2.8   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 37.0 | 68.6  | 9.8   | 25.9 | 2.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 367.9 | 61.0  | 1.6  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 123.0   | 45.0 | -     | 9.1   | 10.2 | 0.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0   | 82.5  | 31.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -     | 0.0   | 6.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | -     | 18.2  | 4.9  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | -     | 153.8 | 25.0 | 0.0 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -     | 143.5 | 6.6  | 0.0 | 2.9  | 0.0  | -    | -    | 0.0  | 0.0  | -    |
| 127.0   | 50.0 | -     | 20.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -     | 29.6  | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0   | 1.5   | 0.0  | 3.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 1.6   | 1.0   | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 37.3  | 20.2  | 0.0  | 3.3 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 19.2  | 164.2 | 29.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -     | 60.7  | 93.1 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 9.1   | 42.5  | 15.3 | 8.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -     | 2.6   | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -     | 5.9   | 37.6 | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 3.0   | 11.2  | 34.8 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 1.8   | 29.5  | 9.6  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0   | 31.6  | 22.7 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -     | 16.3  | 8.8  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 47.5  | 63.2  | 0.0  | 5.3 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -     | 8.1   | 14.1 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | 25.9  | 10.8  | 2.7  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Merluccius productus* (cont.)

| STATION | JAN. | FEB.  | MAR.  | APR.  | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|-------|-------|-------|-----|------|------|------|------|------|------|------|
| 133.0   | 60.0 | 0.0   | 0.0   | 8.8   | -   | -    | -    | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0   | 3.0   | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 373.3 | 20.4  | 87.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 35.0 | -     | -     | 247.2 | 5.9 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 211.2 | 106.9 | 359.8 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -     | 0.0   | 5.8   | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 3.3   | -     | 15.0  | 2.6 | 0.0  | 0.0  | 26.0 | -    | -    | -    | -    |
| 140.0   | 30.0 | 32.1  | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 35.0 | 233.2 | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0   | 40.0 | 157.6 | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 143.0   | 26.0 | 1.6   | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 143.0   | 30.0 | 23.0  | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 25.0 | 8.1   | -     | -     | -   | -    | -    | -    | -    | -    | -    | -    |

## Macrouridae

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 70.0    | 70.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    |
| 80.0    | 100.0 | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 40.0  | 0.0  | 0.0  | 10.3 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 143.0   | 35.0  | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

## Ophidiiformes

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 73.0    | 50.0 | -    | -    | 0.0  | 0.0 | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    | -    |
| 73.0    | 55.0 | -    | -    | -    | 0.0 | 20.4 | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 60.0 | -    | -    | 0.0  | 0.0 | -    | 2.5  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0 | -    | -    | 0.0  | 0.0 | 0.0  | 2.7  | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 55.0 | -    | -    | 0.0  | 0.0 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 70.0 | -    | -    | 0.0  | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | 3.8  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -    | -    | 0.0  | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 0.0  | 2.4  | 2.5  | 0.0 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0 | 0.0  | 0.0  | 0.0  | 6.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 45.0 | -    | -    | -    | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 45.0 | -    | -    | -    | 0.0 | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | 0.0  | 3.4 | 3.0  | -    | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Ophidiiformes (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.8  | 2.8  | 0.0  | -    | -    | 0.0  | -    |
| 115.0   | 27.0 | 1.5  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 117.0   | 30.0 | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 4.5  | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 7.1  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 5.4  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 49.1 | 6.1  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.4  | 1.5  | 0.0  | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 12.4 | 6.3  | 1.6  | -    |
| 133.0   | 25.0 | 1.8  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.5  | 2.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.6  | 0.0  | 44.2 | 0.0  | -    |
| 137.0   | 30.0 | 11.4 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 93.3 | 0.0  | -    |

*Brosomphycis marginata*

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 63.0    | 60.0 | -    | -    | -    | 10.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 50.0 | -    | -    | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    | -    |
| 83.0    | 55.0 | -    | -    | 0.0  | 0.0  | 5.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 50.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 85.0    | 70.0 | 0.0  | 0.0  | -    | -    | -    | 2.7  | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -    | -    | 0.0  | 0.0  | 1.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -    | -    | 0.0  | 0.0  | 1.6  | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0 | -    | -    | 0.0  | 0.0  | 5.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | -    | -    | 0.0  | 0.0  | 26.5 | -    | -    | -    | -    | -    | -    |
| 90.0    | 41.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 93.0    | 30.0 | -    | 0.0  | -    | 3.2  | 6.1  | -    | -    | -    | -    | -    | -    |
| 93.0    | 45.0 | -    | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | 0.0  | 0.0  | 1.8  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0 | -    | -    | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 105.0   | 32.0 | 0.0  | 0.0  | -    | -    | -    | 1.8  | -    | -    | -    | -    | -    |

## Carapidae

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 143.0   | 30.0 | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
|         |      | 2.9  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Chilara taylori*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 60.0    | 70.0 | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 5.0  | 0.0  | -    |
| 70.0    | 70.0 | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 80.0    | 90.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 85.0    | 60.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 5.6  | 0.0  | 0.0  | -    |
| 93.0    | 40.0 | 0.0  | 2.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 2.0  | 3.2  | 0.0  | -    |
| 100.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | 0.0  | -    |
| 117.0   | 40.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | 0.0  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 133.0   | 25.0 | 1.8  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 2.1  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | -    |

*Ophidion scrippsae*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2  | 0.0  | 12.0 | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.7  | 0.0  | 7.0  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 1.0  | -    | -    | -    | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 24.1 | 0.0  | 0.0  | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 10.0 | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 99.0 | 0.0  | 57.6 | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 15.3 | 0.0  | -    |

*Ceratioidei*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 100.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    |
| 100.0   | 80.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | -    |

*Gobiesocidae*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Exocoetidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 130.0 30.0 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Cololabis saira*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 67.0 65.0  | -    | -    | -    | -    | -   | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0 70.0  | 0.0  | 0.0  | 0.0  | -    | -   | -    | 2.7  | -    | -    | -    | -    | -    |
| 87.0 40.0  | -    | -    | -    | 2.3  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 70.0  | -    | -    | -    | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 28.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 37.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0 70.0  | 0.0  | 0.0  | 0.0  | 3.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 100.0 | -    | -    | -    | 0.0  | -   | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 35.0  | -    | -    | -    | -    | 6.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 30.0 | -    | 0.0  | 0.0  | 2.7  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 45.0 | -    | -    | -    | -    | 4.7 | 3.5  | 0.0  | -    | -    | 3.3  | 0.0  | -    |
| 100.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 100.0 75.0 | -    | -    | -    | -    | 1.9 | -    | -    | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 35.0 | -    | -    | -    | 0.0  | 0.0 | 1.2  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 45.0 | -    | -    | -    | -    | 2.3 | -    | -    | -    | -    | -    | -    | -    |
| 107.0 80.0 | -    | -    | -    | 0.0  | 0.0 | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0 45.0 | -    | -    | -    | -    | 0.0 | 2.6  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 120.0 35.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 40.0 | -    | -    | 0.0  | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 45.0 | -    | -    | 0.0  | 5.8  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | -    |

## Atherinidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 87.0 50.0  | -    | -    | -    | 0.0  | 1.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 28.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 37.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 5.6  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 27.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 0.0  | 2.7  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Trachipteridae

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 40.0    | 80.0 | -    | -    | -    | -    | -    | 6.4  | -    | -    | -    | -    | -    |
| 47.0    | 60.0 | -    | -    | -    | -    | -    | 6.4  | -    | -    | -    | -    | -    |
| 60.0    | 60.0 | -    | -    | 0.0  | -    | 0.0  | 0.0  | -    | 0.0  | 0.0  | 3.0  | -    |
| 60.0    | 90.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 0.0  | 0.0  | 3.0  | -    |
| 70.0    | 70.0 | -    | -    | 0.0  | 22.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 70.0    | 80.0 | -    | -    | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0 | -    | -    | 0.0  | 0.0  | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 73.0    | 55.0 | -    | -    | -    | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 60.0 | -    | -    | 2.7  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 6.2  | -    | -    |
| 77.0    | 50.0 | -    | -    | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | -    | -    | -    |
| 80.0    | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 80.0 | -    | 0.0  | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 50.0 | 1.9  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 50.0 | -    | -    | 1.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -    | -    | -    | 0.0  | 5.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 60.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    |
| 93.0    | 40.0 | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0 | -    | -    | -    | 3.2  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0 | -    | -    | -    | 0.0  | 0.0  | 2.7  | -    | -    | -    | -    | -    |
| 97.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 97.0    | 75.0 | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 80.0 | -    | -    | 0.0  | 0.0  | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 35.0 | -    | -    | -    | -    | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 100.0   | 65.0 | -    | -    | -    | 4.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0 | -    | -    | 3.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 40.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 107.0   | 55.0 | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |

## Melamphaes spp.

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 60.0    | 70.0 | -    | -    | 0.0  | -   | 0.0  | 2.3  | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 80.0 | -    | -    | 0.0  | 2.8 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 90.0 | -    | -    | 0.0  | 0.0 | 2.8  | 0.0  | -    | 0.0  | 0.0  | 0.0  | -    |
| 67.0    | 55.0 | -    | -    | 6.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 55.0 | -    | -    | 5.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 70.0 60.0  | -    | -    | -    | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 80.0  | -    | -    | -    | 7.4  | 9.9  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 90.0  | -    | -    | -    | 6.3  | 5.9  | 2.7  | 0.0  | -    | -    | -    | -    | -    |
| 70.0 100.0 | -    | -    | -    | -    | 0.0  | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 73.0 55.0  | -    | -    | -    | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 77.0 50.0  | -    | -    | -    | -    | 2.9  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 77.0 60.0  | -    | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 80.0 60.0  | 0.0  | 2.8  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 70.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.0  | 0.0  | 0.0  | 0.0  | 9.9  | 0.0  | -    |
| 80.0 90.0  | 2.6  | 2.3  | -    | 2.8  | 0.0  | 2.7  | 0.0  | 3.1  | 6.1  | 3.1  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 5.6  | -    | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 3.0  | -    |
| 83.0 55.0  | -    | -    | -    | 2.5  | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 60.0  | -    | -    | -    | 0.0  | 10.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 70.0  | -    | -    | -    | 0.0  | 8.7  | 2.9  | -    | -    | -    | -    | -    | -    |
| 83.0 80.0  | -    | -    | -    | 0.0  | 5.5  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 85.0  | -    | -    | -    | 0.0  | 2.7  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0 90.0  | -    | -    | -    | 8.7  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0 40.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0 55.0  | -    | -    | -    | -    | 0.0  | 5.4  | -    | -    | -    | -    | -    | -    |
| 87.0 60.0  | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 70.0  | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0 75.0  | -    | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    | -    | -    |
| 87.0 80.0  | -    | -    | -    | 3.2  | 2.5  | 2.9  | -    | -    | -    | -    | -    | -    |
| 87.0 90.0  | -    | -    | -    | 10.3 | -    | -    | -    | -    | -    | -    | -    | -    |
| 90.0 45.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 15.6 | 0.0  | 7.5  | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 60.0  | 0.0  | 0.0  | 0.0  | 3.1  | 2.7  | 13.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 65.0  | -    | -    | -    | -    | 0.0  | 6.7  | -    | -    | -    | -    | -    | -    |
| 90.0 70.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    | 6.3  | 2.5  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 75.0  | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    | -    |
| 90.0 80.0  | 0.0  | 0.0  | 2.7  | 2.6  | 2.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 30.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 50.0  | 2.3  | 2.9  | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | -    | -    | -    | -    | 2.9  | 14.0 | 0.0  | -    | -    | -    | -    | -    |
| 93.0 60.0  | 0.0  | 11.0 | 0.0  | 5.5  | 3.3  | 1.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 65.0  | -    | -    | -    | -    | 3.3  | 3.3  | -    | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 2.8  | 0.0  | 6.0  | 0.0  | 3.1  | -    | -    | -    | -    | -    |
| 93.0 75.0  | -    | -    | -    | 7.5  | 3.2  | 3.8  | 2.8  | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 0.0  | 0.0  | -    | 8.8  | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | -    | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0 30.0  | 0.0  | 0.0  | 0.0  | -    | 3.7  | -    | -    | -    | -    | -    | -    | -    |
| 97.0 35.0  | -    | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0 36.0  | -    | -    | -    | -    | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | 3.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.0 45.0  | -    | -    | -    | -    | 5.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 6.5  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 55.0  | -    | -    | -    | -    | 7.0  | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 60.0  | 0.0  | 0.0  | 2.9  | 3.3  | 4.1  | 4.4  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 65.0  | -    | -    | -    | -    | 11.9 | 6.3  | -    | -    | -    | -    | -    | -    |
| 97.0 70.0  | 0.0  | 0.0  | 0.0  | 2.8  | 3.8  | 6.4  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 75.0  | -    | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | 2.8  | 0.0  | 6.1  | 4.6  | -    | -    | -    | -    | -    |
| 97.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 6.7  | 23.4 | -    | -    | -    | -    | -    |
| 100.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 2.1  | 0.0  | -    |
| 100.0 50.0 | -    | 0.0  | 0.0  | 3.3  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 55.0 | -    | -    | -    | -    | 0.0  | 0.0  | 6.6  | -    | -    | -    | -    | -    |
| 100.0 60.0 | -    | 0.0  | 0.0  | 6.4  | 3.0  | 1.5  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 65.0 | -    | -    | -    | -    | 4.8  | 3.7  | -    | -    | -    | -    | -    | -    |
| 100.0 70.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 75.0 | -    | -    | -    | -    | 1.9  | -    | -    | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 6.4  | 2.3  | 0.0  | 2.8  | 2.2  | 0.0  | 2.5  | 0.0  | -    |
| 100.0 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 0.0  | 2.7  | -    | -    | -    | -    | -    |
| 103.0 40.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 103.0 45.0 | -    | -    | -    | -    | 2.3  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 50.0 | -    | -    | -    | 0.0  | 2.8  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 60.0 | -    | -    | -    | 3.2  | 3.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 65.0 | -    | -    | -    | -    | 2.7  | 3.7  | -    | -    | -    | -    | -    | -    |
| 103.0 70.0 | -    | -    | -    | 0.0  | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 75.0 | -    | -    | -    | -    | 4.8  | 2.9  | -    | -    | -    | -    | -    | -    |
| 103.0 80.0 | -    | -    | -    | 3.3  | 2.3  | 7.5  | -    | -    | -    | -    | -    | -    |
| 103.0 90.0 | -    | -    | -    | 0.0  | 0.0  | 5.0  | -    | -    | -    | -    | -    | -    |
| 105.0 55.0 | -    | -    | -    | -    | -    | -    | 2.4  | -    | -    | -    | -    | -    |
| 105.0 60.0 | 2.8  | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0 70.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | 11.6 | -    | -    | -    | -    | -    |
| 105.0 80.0 | 2.4  | 0.0  | -    | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0 90.0 | -    | -    | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    |
| 107.0 35.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | 2.8  | 0.0  | 2.7  | 0.0  | -    |
| 107.0 40.0 | -    | -    | -    | 0.0  | 0.0  | 3.1  | -    | 0.0  | 0.0  | -    | -    | -    |
| 107.0 45.0 | -    | -    | -    | 7.2  | 0.0  | 3.3  | -    | -    | -    | -    | -    | -    |
| 107.0 50.0 | -    | -    | -    | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0 60.0 | -    | -    | -    | 0.0  | 7.7  | 3.0  | -    | -    | -    | -    | -    | -    |
| 107.0 65.0 | -    | -    | -    | 0.0  | -    | 7.2  | -    | -    | -    | -    | -    | -    |
| 107.0 70.0 | -    | -    | -    | 0.0  | 10.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0 80.0 | -    | -    | -    | 0.0  | 0.0  | 3.0  | -    | -    | -    | -    | -    | -    |
| 110.0 40.0 | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 45.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0 | 0.0  | 0.0  | 3.0  | 3.0  | 14.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 110.0 55.0 | -    | -    | -    | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 60.0 | -    | 0.0  | 0.0  | 0.0  | -    | 3.2  | 5.9  | 0.0  | 0.0  | 6.0  | 0.0  | -    |
| 110.0 65.0 | -    | -    | -    | -    | 3.0  | 3.7  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Melamphaes* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.5 | 3.6  | 0.0  | -    | -    | -    | -    | -    |
| 110.0 80.0 | 0.0  | 0.0  | -    | 3.2  | 0.0 | 12.4 | 0.0  | -    | -    | -    | -    | -    |
| 110.0 90.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 10.1 | 0.0  | -    | -    | -    | -    | -    |
| 113.0 35.0 | -    | 0.0  | 0.0  | 1.5  | 6.3 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0 40.0 | -    | 0.0  | 0.0  | 1.4  | 3.1 | 0.0  | 0.0  | 0.0  | 6.5  | 0.0  | 0.0  | -    |
| 113.0 45.0 | -    | -    | -    | 0.0  | 2.5 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 50.0 | -    | 0.0  | 0.0  | 3.2  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 55.0 | -    | -    | -    | 0.0  | 6.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 60.0 | -    | 0.0  | 2.7  | 0.0  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 65.0 | -    | -    | -    | 0.0  | 3.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0 70.0 | -    | 0.0  | -    | 0.0  | 6.4 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 117.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0 65.0 | -    | -    | -    | 1.4  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 117.0 70.0 | -    | 0.0  | -    | 0.0  | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 120.0 55.0 | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.7  | -    | -    | -    | -    | -    |
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 2.1  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 120.0 65.0 | -    | -    | 0.0  | 0.0  | 0.0 | 3.3  | -    | -    | -    | -    | -    | -    |
| 120.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 13.9 | 0.0  | 0.0  | 0.0  | -    |
| 120.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 120.0 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 13.6 | 0.0  | 3.0  | 0.0  | -    |
| 127.0 50.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | -    | -    | -    | -    | -    |
| 130.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.9  | 0.0  | 2.9  | 0.0  | 1.6  | -    |
| 130.0 45.0 | -    | -    | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 3.6  | 0.0  | 0.0  | -    |
| 130.0 55.0 | -    | -    | 0.0  | 2.9  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | 3.0  | -    |
| 130.0 80.0 | 3.2  | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0 45.0 | -    | -    | 0.0  | 0.0  | 2.2 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 35.0 | -    | -    | -    | 0.0  | 2.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 40.0 | 0.0  | 0.0  | 0.0  | 10.3 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 45.0 | -    | -    | 0.0  | 0.0  | 4.6 | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 60.0 | 0.0  | -    | 0.0  | 2.7  | -   | -    | -    | -    | -    | -    | -    | -    |
| 140.0 50.0 | -    | 5.5  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0 40.0 | -    | 3.0  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Poromitra* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 45.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 70.0 | -    | 0.0  | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 80.0 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 40.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    | -    |

TABLE 4. (cont.)

*Scopelogadus bispinosus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 117.0 50.0 | -    | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0 40.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    | -    |
| 147.0 30.0 | -    | 2.3  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Syngnathus* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 100.0 29.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 35.0 | -    | -    | -    | -    | -   | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 30.0 | -    | -    | -    | 0.0  | 0.0 | 2.4  | -    | 0.0  | 4.1  | 0.0  | 0.0  | -    |
| 133.0 25.0 | 0.0  | 0.0  | 0.8  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |

## Agonidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.0 43.0  | -    | -    | -    | -    | 10.7 | 2.4  | -    | -    | -    | -    | -    | -    |
| 87.0 40.0  | -    | -    | -    | 2.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0 32.0 | 0.0  | 0.0  | 1.6  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |

*Anoplopoma fimbria*

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 70.0 55.0 | -    | -    | -    | 2.7  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |

## Cottidae

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 53.0 52.0 | -    | -    | -    | -    | -   | 1.7  | -    | -    | -    | -    | -    | -    |
| 63.0 52.0 | -    | -    | -    | 0.0  | 0.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 63.0 55.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | -    |
| 70.0 51.0 | -    | -    | -    | -    | -   | -    | 0.0  | 0.0  | 0.0  | -    | 20.2 | -    |
| 80.0 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | -    |
| 80.0 55.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 83.0 43.0 | -    | -    | -    | -    | 0.0 | 4.8  | -    | -    | -    | -    | -    | -    |
| 83.0 70.0 | -    | -    | -    | 0.0  | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 85.0 38.0 | 0.0  | 0.0  | 0.0  | -    | 3.2 | 14.6 | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 87.0 50.0 | -    | -    | -    | 0.0  | 0.0 | 5.4  | -    | -    | -    | -    | -    | -    |
| 87.0 55.0 | -    | -    | -    | -    | 0.0 | 79.4 | -    | -    | -    | -    | -    | -    |
| 87.0 60.0 | -    | -    | -    | 0.0  | 0.0 | -    | -    | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Cottidae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 27.0  | 0.0  | 0.0  | 7.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 30.0  | 0.0  | 0.0  | 0.0  | -    | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0 32.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 29.0 | 0.0  | -    | 4.4  | 7.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 30.0 | -    | 0.0  | 5.6  | 2.7  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 30.0 | -    | -    | -    | 3.7  | 10.6 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0 32.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 5.6  | 0.0  | 0.0  | -    |
| 113.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 9.9  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | -    |
| 117.0 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 40.0 | -    | -    | 0.0  | 0.0  | 0.0  | 1.9  | -    | -    | -    | -    | -    | -    |
| 120.0 45.0 | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 34.0 | 0.0  | -    | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Scorpaenichthys marmoratus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 57.0 51.0  | -    | -    | -    | -    | -   | 10.3 | 0.0  | -    | -    | -    | -    | -    |
| 80.0 51.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 55.0  | 5.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 37.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 93.0 30.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 29.0 | 1.2  | -    | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | -    |

## Cyclopteridae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 47.0 50.0  | -    | -    | -    | -    | -   | -    | 11.0 | -    | -    | -    | -    | -    |
| 53.0 55.0  | -    | -    | -    | -    | -   | 3.8  | 0.0  | -    | -    | -    | -    | -    |
| 57.0 55.0  | -    | -    | -    | -    | -   | 2.2  | 0.0  | -    | -    | -    | -    | -    |
| 63.0 52.0  | -    | -    | -    | 0.0  | 2.1 | 1.7  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 73.0 50.0  | -    | -    | -    | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 100.0 29.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | -    |
| 100.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 4.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 30.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 3.7  | 0.0  | -    |
| 110.0 33.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Ophiodon elongatus*

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 77.0 50.0 | -    | -    | -    | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |

*Zaniolepis* spp.

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 80.0 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

## Scorpaenidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 15.8 | 0.0  | 0.0  | -    |
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 13.2 | 3.1  | 0.0  | 0.0  | -    |
| 120.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | -    |
| 123.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 0.0  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.3  | 14.8 | 0.0  | -    | -    | -    |

*Sebastes* spp.

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE  | JULY  | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|-------|-------|------|------|------|------|------|
| 40.0 50.0 | -    | -    | -    | -    | -   | -     | 17.6  | -    | -    | -    | -    | -    |
| 40.0 60.0 | -    | -    | -    | -    | -   | -     | 53.6  | -    | -    | -    | -    | -    |
| 40.0 70.0 | -    | -    | -    | -    | -   | -     | 11.9  | -    | -    | -    | -    | -    |
| 40.0 80.0 | -    | -    | -    | -    | -   | -     | 6.4   | -    | -    | -    | -    | -    |
| 47.0 50.0 | -    | -    | -    | -    | -   | -     | 44.2  | -    | -    | -    | -    | -    |
| 47.0 55.0 | -    | -    | -    | -    | -   | -     | 121.3 | -    | -    | -    | -    | -    |
| 47.0 60.0 | -    | -    | -    | -    | -   | -     | 44.7  | -    | -    | -    | -    | -    |
| 50.0 47.0 | -    | -    | -    | -    | -   | -     | 2.7   | -    | -    | -    | -    | -    |
| 50.0 50.0 | -    | -    | -    | -    | -   | 33.4  | 0.0   | -    | -    | -    | -    | -    |
| 50.0 55.0 | -    | -    | -    | -    | -   | -     | 37.0  | -    | -    | -    | -    | -    |
| 50.0 60.0 | -    | -    | -    | -    | -   | -     | 2.6   | -    | -    | -    | -    | -    |
| 50.0 70.0 | -    | -    | -    | -    | -   | -     | 2.9   | -    | -    | -    | -    | -    |
| 53.0 52.0 | -    | -    | -    | -    | -   | 8.6   | -     | -    | -    | -    | -    | -    |
| 53.0 55.0 | -    | -    | -    | -    | -   | 11.5  | 22.8  | -    | -    | -    | -    | -    |
| 53.0 60.0 | -    | -    | -    | -    | -   | -     | 5.8   | -    | -    | -    | -    | -    |
| 57.0 51.0 | -    | -    | -    | -    | -   | 0.0   | 1.5   | -    | -    | -    | -    | -    |
| 57.0 55.0 | -    | -    | -    | -    | -   | 17.8  | 44.2  | -    | -    | -    | -    | -    |
| 57.0 60.0 | -    | -    | -    | -    | -   | -     | 4.6   | -    | -    | -    | -    | -    |
| 57.0 65.0 | -    | -    | -    | -    | -   | 16.0  | 6.0   | -    | -    | -    | -    | -    |
| 60.0 55.0 | -    | -    | -    | 3.7  | -   | 101.9 | -     | 0.0  | 3.2  | 25.9 | 10.3 | -    |
| 60.0 57.0 | -    | -    | -    | -    | -   | -     | 19.3  | -    | -    | -    | -    | -    |
| 60.0 60.0 | -    | -    | -    | 15.8 | -   | 211.7 | 72.8  | -    | 0.0  | 0.0  | 6.0  | -    |

TABLE 4. (cont.)

## Sebastes spp. (cont.)

| STATION | JAN.  | FEB.  | MAR.  | APR. | MAY  | JUNE  | JULY  | AUG. | SEP. | OCT.  | NOV. | DEC. |
|---------|-------|-------|-------|------|------|-------|-------|------|------|-------|------|------|
| 60.0    | 65.0  | -     | -     | 23.5 | -    | 6.1   | -     | -    | -    | -     | -    | -    |
| 60.0    | 70.0  | -     | -     | 0.0  | -    | 5.8   | 58.0  | -    | 0.0  | 24.8  | 5.8  | -    |
| 60.0    | 90.0  | -     | -     | -    | 0.0  | 0.0   | 18.1  | -    | 0.0  | 0.0   | 0.0  | -    |
| 60.0    | 100.0 | -     | -     | -    | 2.8  | 3.2   | -     | -    | 0.0  | 0.0   | 0.0  | -    |
| 63.0    | 52.0  | -     | -     | 0.0  | 2.1  | 3.4   | 0.0   | 0.0  | 11.0 | 2.4   | 7.0  | -    |
| 63.0    | 55.0  | -     | -     | 77.5 | 12.2 | 18.6  | 21.5  | 0.0  | 9.1  | 11.1  | 5.4  | -    |
| 63.0    | 60.0  | -     | -     | -    | 32.0 | 5.8   | 44.0  | 6.6  | -    | -     | -    | -    |
| 63.0    | 65.0  | -     | -     | -    | 13.4 | 0.0   | 5.3   | -    | -    | -     | -    | -    |
| 67.0    | 50.0  | -     | -     | 13.2 | 0.0  | 5.3   | -     | 0.0  | 12.6 | -     | 6.5  | -    |
| 67.0    | 55.0  | -     | -     | 24.1 | 0.0  | 32.4  | 77.4  | 30.9 | 31.2 | 0.0   | 0.0  | -    |
| 67.0    | 60.0  | -     | -     | -    | -    | 0.0   | 3.2   | -    | -    | -     | -    | -    |
| 67.0    | 65.0  | -     | -     | -    | -    | 0.0   | 0.0   | 16.5 | 0.0  | 12.4  | 0.0  | -    |
| 70.0    | 51.0  | -     | -     | -    | -    | -     | 0.0   | 0.0  | 0.0  | -     | 12.6 | -    |
| 70.0    | 55.0  | -     | -     | 5.5  | 0.0  | 8.2   | -     | -    | -    | -     | 13.4 | -    |
| 70.0    | 60.0  | -     | -     | 28.6 | 0.0  | 12.7  | 0.0   | 5.9  | 4.8  | 0.0   | -    | -    |
| 70.0    | 65.0  | -     | -     | -    | 22.7 | 11.2  | 0.0   | 12.6 | 9.6  | 2.9   | 0.0  | -    |
| 70.0    | 70.0  | -     | -     | 0.0  | 45.5 | 12.6  | 93.4  | -    | -    | -     | -    | -    |
| 70.0    | 75.0  | -     | -     | -    | -    | 24.9  | -     | -    | -    | -     | -    | -    |
| 70.0    | 80.0  | -     | -     | 4.9  | 0.0  | 19.1  | 3.1   | 5.2  | 5.2  | 0.0   | 0.0  | -    |
| 70.0    | 90.0  | -     | -     | 14.6 | 0.0  | 0.0   | 0.0   | 2.6  | 0.0  | 13.8  | -    | -    |
| 73.0    | 50.0  | -     | -     | 61.7 | 20.2 | 0.0   | 4.6   | -    | -    | -     | -    | -    |
| 73.0    | 55.0  | -     | -     | -    | 28.6 | 29.2  | 69.7  | -    | -    | -     | -    | -    |
| 73.0    | 60.0  | -     | -     | 40.4 | 0.0  | -     | 22.8  | 0.0  | 0.0  | 31.2  | -    | -    |
| 77.0    | 50.0  | -     | -     | 22.5 | 10.8 | 0.0   | 148.5 | 0.0  | 0.0  | -     | 0.0  | -    |
| 77.0    | 55.0  | -     | -     | 95.2 | 32.9 | 70.6  | 49.0  | 12.4 | 0.0  | 26.0  | -    | -    |
| 77.0    | 60.0  | -     | -     | -    | 8.7  | 0.0   | 13.6  | -    | -    | -     | -    | -    |
| 77.0    | 65.0  | -     | -     | -    | 6.4  | -     | 39.6  | 24.2 | 16.3 | 0.0   | 0.0  | -    |
| 80.0    | 51.0  | 15.6  | 0.0   | 85.2 | 2.5  | 3.4   | 3.9   | 0.0  | 1.3  | 0.0   | 13.8 | -    |
| 80.0    | 55.0  | 62.0  | 10.1  | 26.5 | 2.8  | 16.3  | 11.1  | 5.8  | 15.3 | 231.0 | 32.8 | -    |
| 80.0    | 60.0  | 33.4  | 25.3  | 11.2 | 23.9 | 40.5  | 27.8  | 6.6  | 24.9 | 23.2  | 0.0  | -    |
| 80.0    | 65.0  | -     | -     | -    | -    | 6.4   | 10.2  | -    | -    | -     | -    | -    |
| 80.0    | 70.0  | 0.0   | 19.5  | 0.0  | 0.0  | 23.3  | 0.0   | 3.0  | 0.0  | 0.0   | 0.0  | -    |
| 80.0    | 80.0  | 0.0   | 59.2  | 0.0  | 4.9  | 0.0   | 0.0   | 2.8  | 0.0  | 0.0   | 0.0  | -    |
| 80.0    | 90.0  | 2.6   | -     | 14.1 | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 80.0    | 100.0 | 0.0   | -     | 5.3  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 83.0    | 43.0  | -     | -     | -    | 0.0  | 9.6   | -     | -    | -    | -     | -    | -    |
| 83.0    | 55.0  | -     | -     | 78.1 | 31.6 | 135.5 | -     | -    | -    | -     | -    | -    |
| 83.0    | 60.0  | -     | -     | 82.9 | 51.6 | 10.6  | -     | -    | -    | -     | -    | -    |
| 83.0    | 65.0  | -     | -     | -    | 22.3 | -     | -     | -    | -    | -     | -    | -    |
| 83.0    | 70.0  | -     | -     | 77.0 | 5.8  | 41.2  | -     | -    | -    | -     | -    | -    |
| 83.0    | 80.0  | -     | -     | 0.0  | 0.0  | 17.0  | -     | -    | -    | -     | -    | -    |
| 83.0    | 90.0  | -     | -     | 2.2  | 0.0  | 0.0   | -     | -    | -    | -     | -    | -    |
| 85.0    | 38.0  | 77.3  | 304.0 | -    | -    | 21.7  | -     | 11.3 | 29.1 | 13.7  | 48.6 | -    |
| 85.0    | 40.0  | 202.4 | 240.9 | -    | -    | 10.5  | 10.5  | 0.0  | 13.5 | 3.4   | 10.2 | -    |
| 85.0    | 45.0  | -     | -     | -    | -    | 2.9   | 2.9   | -    | -    | -     | -    | -    |
| 85.0    | 50.0  | 75.9  | 510.5 | -    | -    | 0.0   | 0.0   | 12.4 | 9.3  | 19.6  | 2.6  | -    |

TABLE 4. (cont.)

## Sebastes spp. (cont.)

| STATION | JAN. | FEB.  | MAR.  | APR.  | MAY   | JUNE  | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 85.0    | 55.0 | -     | -     | -     | -     | -     | 6.4  | -    | -    | -    | -    | -    |
| 85.0    | 60.0 | 308.6 | 35.2  | -     | -     | -     | 12.0 | 11.4 | 8.5  | 3.0  | 0.0  | -    |
| 85.0    | 70.0 | 5.2   | 0.0   | -     | -     | -     | 21.8 | -    | -    | -    | -    | -    |
| 85.0    | 80.0 | -     | -     | -     | -     | -     | 5.1  | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -     | -     | 228.0 | 14.8  | 19.5  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0 | -     | -     | 67.9  | 0.0   | 9.6   | -    | -    | -    | -    | -    | -    |
| 87.0    | 45.0 | -     | -     | -     | 3.0   | 14.5  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -     | -     | 54.4  | 100.2 | 1.6   | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -     | -     | -     | 145.7 | 130.6 | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0 | -     | -     | 8.7   | 109.8 | 132.4 | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0 | -     | -     | -     | 30.7  | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -     | -     | 0.0   | 26.0  | 89.6  | -    | -    | -    | -    | -    | -    |
| 87.0    | 75.0 | -     | -     | -     | 14.5  | -     | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -     | -     | 0.0   | 0.0   | 8.6   | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 22.6  | 8.8   | 24.8  | 17.9  | 0.0   | 0.0  | 14.4 | 7.0  | 3.0  | 7.1  | -    |
| 90.0    | 30.0 | 67.8  | 145.8 | 237.7 | 15.3  | 10.5  | 6.1  | 90.9 | 0.0  | 0.0  | 29.4 | -    |
| 90.0    | 33.0 | -     | -     | -     | -     | 50.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 35.0 | -     | -     | -     | -     | 23.6  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | 46.7  | 43.0  | 141.9 | 25.2  | 33.7  | 18.8 | 2.7  | 2.8  | -    | 0.0  | -    |
| 90.0    | 41.0 | -     | -     | -     | -     | 15.3  | -    | -    | -    | -    | -    | -    |
| 90.0    | 45.0 | 28.8  | 39.8  | 86.1  | 39.9  | 65.2  | 6.2  | 0.0  | 0.0  | 6.8  | 0.0  | -    |
| 90.0    | 53.0 | 9.3   | 0.0   | 73.9  | 146.0 | 14.8  | 0.0  | 11.6 | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0 | 0.0   | 8.5   | 0.0   | 0.0   | 8.4   | 2.7  | 8.6  | 0.0  | 0.0  | 7.9  | -    |
| 90.0    | 70.0 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 80.0 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.2  | -    | -    | -    | 0.0  | -    |
| 93.0    | 27.0 | 59.1  | 55.8  | 216.0 | 12.9  | 0.0   | 0.0  | 20.5 | 0.0  | 5.6  | 70.8 | -    |
| 93.0    | 30.0 | 17.6  | 45.0  | 44.3  | 19.2  | 19.3  | 8.3  | 4.7  | 4.5  | 0.0  | 22.4 | -    |
| 93.0    | 35.0 | -     | -     | -     | 42.5  | 16.1  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 40.0 | 4.8   | 40.5  | 52.5  | 43.7  | 29.4  | 5.7  | 2.6  | 0.0  | 0.0  | 4.6  | -    |
| 93.0    | 45.0 | -     | -     | -     | 48.6  | 91.8  | 18.5 | -    | 0.0  | -    | -    | -    |
| 93.0    | 50.0 | 35.1  | 60.0  | 0.0   | 139.5 | 95.2  | 10.3 | 0.0  | 0.0  | 0.0  | 5.3  | -    |
| 93.0    | 55.0 | -     | -     | -     | 116.4 | 21.0  | 6.0  | -    | -    | -    | -    | -    |
| 93.0    | 60.0 | 0.0   | 0.0   | 2.8   | 85.0  | 0.0   | 5.5  | -    | -    | -    | -    | -    |
| 93.0    | 80.0 | -     | -     | 3.7   | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 30.0 | 16.6  | 18.7  | -     | 49.8  | 22.3  | 7.8  | 0.0  | 3.0  | -    | 11.3 | -    |
| 97.0    | 32.0 | 36.2  | 8.6   | 36.9  | -     | 3.0   | 6.8  | 2.5  | 12.2 | 0.0  | 0.0  | -    |
| 97.0    | 35.0 | -     | -     | -     | 25.8  | -     | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0 | -     | -     | -     | -     | 36.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0   | 26.0  | 5.8   | 69.3  | 35.1  | 9.1  | 28.6 | 7.6  | 3.2  | 0.0  | -    |
| 97.0    | 45.0 | -     | -     | -     | 235.8 | 79.1  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0 | 0.0   | 29.4  | 118.8 | 2.9   | 73.9  | 6.5  | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0 | -     | -     | -     | 3.5   | 202.0 | 8.0  | -    | -    | -    | -    | -    |
| 97.0    | 60.0 | 0.0   | 73.5  | 42.8  | 0.0   | 164.8 | 5.2  | -    | -    | -    | -    | -    |
| 97.0    | 65.0 | -     | -     | -     | 0.0   | 37.7  | -    | -    | -    | -    | -    | -    |
| 97.0    | 70.0 | 0.0   | 32.9  | 5.7   | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0 | -     | -     | 2.8   | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Sebastes spp. (cont.)

| STATION | JAN.  | FEB.  | MAR.  | APR.  | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 97.0    | 90.0  | -     | -     | 3.3   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | 5.0   | 29.6  | 255.2 | 24.8 | 0.0  | 3.2  | 0.0  | 9.5  | 15.6 | -    | -    |
| 100.0   | 30.0  | -     | 81.5  | 176.9 | 19.0 | 3.8  | 0.0  | 0.0  | 0.0  | 33.6 | 11.3 | -    |
| 100.0   | 35.0  | 212.0 | -     | -     | -    | 10.2 | 3.1  | -    | -    | -    | 13.0 | -    |
| 100.0   | 40.0  | 48.8  | 24.5  | 0.0   | 25.4 | 35.3 | 0.0  | 2.3  | 0.0  | 0.0  | 1.8  | -    |
| 100.0   | 45.0  | -     | -     | -     | 18.9 | 35.3 | 5.5  | -    | -    | -    | -    | -    |
| 100.0   | 50.0  | 0.0   | 3.0   | 3.3   | 29.6 | 35.2 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0  | -     | -     | -     | 52.2 | 59.6 | 6.6  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | 0.0   | 0.0   | 0.0   | 17.9 | 25.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 65.0  | -     | -     | -     | 19.4 | 14.9 | -    | -    | -    | -    | -    | -    |
| 100.0   | 70.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 100.0 | -     | -     | 3.3   | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 30.0  | -     | -     | 277.1 | 16.0 | 0.8  | -    | 0.0  | 4.1  | 3.7  | 4.8  | -    |
| 103.0   | 35.0  | -     | -     | 111.5 | 2.8  | 5.8  | -    | 0.0  | 3.4  | 8.8  | 0.0  | -    |
| 103.0   | 40.0  | -     | -     | 9.6   | 29.4 | 8.5  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 45.0  | -     | -     | -     | 36.2 | -    | -    | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -     | -     | 142.6 | 8.5  | 5.6  | -    | -    | -    | -    | -    | -    |
| 103.0   | 55.0  | -     | -     | -     | -    | 7.5  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -     | -     | 3.2   | 0.0  | 14.0 | -    | -    | -    | -    | -    | -    |
| 103.0   | 80.0  | -     | -     | 0.0   | 2.3  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0   | 32.0  | 26.6  | 17.5  | -     | -    | -    | 3.6  | -    | -    | -    | -    | -    |
| 105.0   | 35.0  | 16.6  | 54.0  | -     | -    | -    | 10.8 | -    | -    | -    | -    | -    |
| 105.0   | 40.0  | 0.0   | 2.5   | -     | -    | -    | 3.2  | -    | -    | -    | -    | -    |
| 105.0   | 45.0  | 0.0   | 8.0   | -     | -    | -    | 3.3  | -    | -    | -    | -    | -    |
| 105.0   | 50.0  | -     | -     | -     | -    | -    | 4.9  | -    | -    | -    | -    | -    |
| 105.0   | 55.0  | -     | -     | -     | -    | -    | 2.8  | -    | -    | -    | -    | -    |
| 105.0   | 60.0  | 6.1   | 0.0   | -     | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0   | 70.0  | 2.7   | 3.8   | -     | -    | -    | -    | 0.0  | 5.6  | 3.9  | 4.7  | -    |
| 107.0   | 32.0  | -     | -     | 47.9  | 12.8 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 3.1  | -    |
| 107.0   | 35.0  | -     | -     | 14.8  | 17.3 | 22.5 | -    | 0.0  | 0.0  | 0.0  | -    | -    |
| 107.0   | 40.0  | -     | -     | 12.6  | 0.0  | 9.3  | -    | 0.0  | 0.0  | 0.0  | -    | -    |
| 107.0   | 45.0  | -     | -     | -     | 6.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 50.0  | -     | -     | 68.2  | 24.0 | 9.1  | -    | -    | -    | -    | -    | -    |
| 107.0   | 55.0  | -     | -     | -     | -    | 33.3 | -    | -    | -    | -    | -    | -    |
| 107.0   | 60.0  | -     | -     | 0.0   | 5.1  | 5.9  | -    | -    | -    | -    | -    | -    |
| 110.0   | 33.0  | 37.3  | -     | 119.2 | 8.0  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 16.2 | -    |
| 110.0   | 35.0  | 20.6  | 5.4   | 142.6 | 13.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 2.5   | 8.8   | 10.0  | 36.4 | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 45.0  | -     | -     | -     | 9.9  | 7.8  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0  | 0.0   | 0.0   | 5.9   | 0.0  | 7.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0  | 0.0   | 0.0   | 5.9   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 80.0  | 0.0   | -     | 3.2   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 30.0  | 47.9  | 159.6 | 26.1  | 14.5 | 0.0  | 3.4  | 3.1  | 0.0  | 0.0  | 42.2 | -    |
| 113.0   | 35.0  | 104.3 | 26.6  | 1.5   | 0.0  | 2.8  | 8.4  | 0.0  | -    | -    | 0.0  | -    |
| 113.0   | 40.0  | 0.0   | 0.0   | 0.0   | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | -    |
| 113.0   | 55.0  | -     | -     | 3.3   | 0.0  | 9.7  | 5.1  | -    | -    | -    | -    | -    |
| 113.0   | 60.0  | 0.0   | 0.0   | 2.8   | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Sebastes spp. (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 113.0   | 65.0 | -    | -     | 2.8   | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 117.0   | 26.0 | 21.7 | 24.9  | 11.1  | 0.0   | 15.0 | 7.0  | 2.2  | 0.0  | 0.0  | 3.3  | -    |
| 117.0   | 30.0 | 8.7  | 9.9   | 22.2  | 0.0   | 14.4 | 22.2 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 63.8 | 63.1  | 6.0   | 21.4  | 14.8 | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 117.0   | 40.0 | 22.3 | 75.7  | 181.2 | 0.0   | 8.9  | 6.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 45.0 | -    | 0.0   | 0.0   | 2.2   | 19.1 | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 50.0 | 8.9  | 10.2  | 0.0   | 13.1  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 0.0   | 0.0   | 0.0   | 3.8  | 4.3  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0  | 13.5  | 1.5   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -     | 0.0   | 0.0   | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | 8.5  | -     | 1.4   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 118.0   | 35.0 | -    | -     | -     | -     | -    | 0.0  | 3.0  | -    | -    | -    | -    |
| 118.5   | 30.0 | -    | -     | -     | -     | -    | -    | 5.2  | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0   | 0.0   | 5.8   | 4.1  | 9.1  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 120.0   | 30.0 | 1.8  | 29.8  | 18.4  | 3.9   | 29.1 | 56.2 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 34.5  | 0.0   | 0.0   | 8.4  | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 37.0 | -    | -     | -     | -     | -    | 4.4  | -    | -    | -    | -    | -    |
| 120.0   | 40.0 | -    | 48.5  | 1.5   | 1.3   | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 3.4  | 250.0 | 0.0   | 0.0   | 3.0  | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 2.9  | 13.5  | 24.4  | 6.2   | 0.0  | 0.0  | 5.9  | 0.0  | 2.5  | 0.0  | -    |
| 120.0   | 55.0 | -    | 2.9   | 0.0   | 5.2   | 12.5 | 0.0  | -    | -    | -    | -    | -    |
| 123.0   | 37.0 | 10.6 | 24.5  | 72.5  | 121.3 | 63.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 5.8  | 46.2  | 1.6   | 21.5  | 21.5 | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | -    | 18.3  | 13.1  | 4.1   | 3.0  | 2.5  | -    | -    | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 0.0   | 2.8   | 0.0   | 0.0  | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0   | 0.0   | 2.6   | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | -    | 71.3  | 31.6  | 5.9   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | -    | 18.4  | 47.0  | 0.0   | 9.6  | 9.8  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 11.0  | 23.2  | 6.7   | 0.0  | 8.6  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 50.0 | -    | 3.1   | 0.0   | 3.2   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 14.8  | 0.0   | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 1.6  | 17.3  | 2.7   | 0.0   | 25.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 49.1  | 0.0   | 3.3   | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 80.6  | 2.9   | 2.7   | 7.0  | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 4.7   | 15.3  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 0.0   | 2.9   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 12.3  | 14.4  | 0.0   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 8.7  | 31.5  | 22.7  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0   | 0.0   | 2.6   | 6.6  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 0.0  | 1.3   | 0.0   | 0.0   | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 0.0   | 0.0   | 0.0   | -    | 3.0  | -    | -    | -    | -    | -    |
| 137.0   | 30.0 | 0.0  | 4.0   | 43.5  | 0.0   | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 35.0 | -    | -     | 5.3   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 12.8  | 0.0   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0   | 11.5  | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 50.0 | 0.0  | -     | 0.0   | 0.0   | 0.0  | 14.9 | 0.0  | -    | -    | -    | -    |

TABLE 4. (cont.)

*Sebastes* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 140.0 30.0 | -    | 7.4  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Sebastolobus* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0 70.0  | -    | -    | -    | -    | -   | -    | 17.8 | -    | -    | -    | -    | -    |
| 40.0 80.0  | -    | -    | -    | -    | -   | -    | 6.4  | -    | -    | -    | -    | -    |
| 40.0 90.0  | -    | -    | -    | -    | -   | -    | 24.6 | -    | -    | -    | -    | -    |
| 50.0 60.0  | -    | -    | -    | -    | -   | -    | 2.6  | -    | -    | -    | -    | -    |
| 53.0 60.0  | -    | -    | -    | -    | -   | -    | 5.8  | -    | -    | -    | -    | -    |
| 60.0 80.0  | -    | -    | -    | 0.0  | 0.0 | -    | -    | -    | 3.2  | 0.0  | 0.0  | -    |
| 67.0 65.0  | -    | -    | -    | -    | -   | 0.0  | 11.2 | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 90.0  | -    | -    | -    | 2.1  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0 80.0  | -    | -    | -    | -    | -   | -    | 5.1  | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 65.0 | -    | -    | -    | -    | 4.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Prionotus* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT.  | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|-------|------|------|
| 117.0 70.0 | -    | 2.8  | -    | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 120.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.6  | -    |
| 123.0 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0   | 0.0  | -    |
| 123.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0   | 0.0  | -    |
| 127.0 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 82.6 | 0.0   | 0.0  | -    |
| 130.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 14.9 | 366.3 | 0.0  | -    |
| 133.0 25.0 | 30.6 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 3.3  | 0.0  | 62.9  | 0.0  | -    |
| 133.0 30.0 | 1.9  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 46.0  | 0.0  | -    |
| 137.0 23.0 | 17.3 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 30.4 | 11.8 | 513.4 | 2.1  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 31.1  | 0.0  | -    |
| 147.0 20.0 | -    | 4.1  | -    | -    | -   | -    | -    | -    | -    | -     | -    | -    |

*Hypsoblennius* spp.

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 87.0 35.0 | -    | -    | -    | 0.0  | 0.0 | 1.0  | -    | -    | -    | -    | -    | -    |
| 87.0 40.0 | -    | -    | -    | 0.0  | 0.0 | 4.8  | -    | -    | -    | -    | -    | -    |
| 90.0 28.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 4.8  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 27.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Hypsoblennius* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 97.0 30.0  | 0.0  | 0.0  | 0.0  | -    | 1.7 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0 32.0  | 0.0  | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | -    |
| 100.0 29.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.3  | 6.7  | 0.0  | -    |
| 115.0 30.0 | -    | -    | -    | -    | -   | -    | -    | 5.0  | -    | -    | -    | -    |
| 117.0 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 1.9  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | -    |
| 117.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 1.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 118.5 25.0 | -    | -    | -    | -    | -   | -    | -    | 2.2  | -    | -    | -    | -    |
| 118.5 35.0 | -    | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 120.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 7.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | -    |
| 123.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  | 0.0  | -    |
| 123.0 45.0 | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.5  | -    | -    | -    | -    | -    |
| 127.0 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 42.4 | 13.8 | 0.0  | 0.0  | -    |
| 127.0 40.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | -    | -    |
| 130.0 30.0 | 0.0  | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 12.4 | 30.0 | 0.0  | -    |
| 130.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 11.0 | 0.0  | 0.0  | -    |
| 133.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 3.3  | 0.0  | 15.7 | 0.0  | -    |
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | -    |
| 133.0 35.0 | -    | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.3  | -    | -    | -    | -    | -    |

## Clinidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 28.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 30.0  | 0.0  | 0.0  | 0.0  | -    | 0.0 | 0.0  | 0.0  | 3.4  | 0.0  | -    | 0.0  | -    |
| 103.0 30.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 6.1  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 40.0 | -    | -    | 0.0  | 0.0  | 0.0 | 1.9  | -    | -    | -    | -    | -    | -    |

## Gobiidae

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 67.0 50.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 4.7  | -    | 0.0  | -    |
| 67.0 55.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 70.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 7.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 80.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    |
| 73.0 60.0 | -    | -    | -    | 0.0  | 3.0 | -    | 2.5  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0 50.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.6  | 0.0  | -    | -    | -    |
| 77.0 55.0 | -    | -    | -    | 0.0  | 0.0 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 55.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.8  | 6.1  | 3.0  | 0.0  | -    |
| 80.0 90.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0 43.0 | -    | -    | -    | -    | 0.0 | 36.2 | -    | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Gobiidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.0    | 55.0 | -    | -    | 2.5  | 6.3  | 5.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -    | -    | 0.0  | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 1.1  | 0.0  | 0.0  | -    |
| 85.0    | 40.0 | 7.4  | 6.6  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 45.0 | -    | -    | -    | -    | -    | 2.9  | -    | -    | -    | -    | -    |
| 85.0    | 60.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 11.4 | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 50.0 | -    | -    | 0.0  | 1.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -    | -    | -    | 3.1  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | 0.0  | 4.8  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 5.2  | 0.0  | 1.3  | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.9  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 5.9  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0 | -    | -    | -    | 0.0  | 6.4  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 93.0    | 40.0 | 2.4  | 0.0  | 18.5 | 0.0  | 14.1 | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0 | -    | 5.2  | -    | 3.2  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 55.0 | -    | -    | 0.0  | 0.0  | 0.0  | 12.1 | 0.0  | -    | -    | -    | -    |
| 93.0    | 60.0 | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 16.5 | -    | -    | -    | -    | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | -    | 1.7  | 0.0  | 2.0  | 3.4  | 0.0  | -    | 0.0  | -    |
| 97.0    | 35.0 | -    | -    | -    | 14.7 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0 | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 9.5  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |
| 97.0    | 45.0 | -    | -    | -    | 10.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 29.0 | -    | 1.5  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 35.0 | -    | -    | -    | -    | 7.3  | 0.0  | -    | 3.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0 | 2.7  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 100.0   | 45.0 | -    | -    | -    | 0.0  | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 55.0 | -    | -    | -    | 0.0  | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 60.0 | 0.0  | 2.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 7.2  | -    |
| 103.0   | 35.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 3.0  | 0.0  | 4.4  | 0.0  | -    |
| 103.0   | 50.0 | -    | -    | 5.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 5.9  | 0.0  | 3.9  | 0.0  | -    |
| 107.0   | 40.0 | -    | -    | 3.2  | 0.0  | 0.0  | -    | 0.0  | 0.0  | -    | -    | -    |
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 8.1  | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 50.0 | 0.0  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 110.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 26.0 | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Gobiidae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 117.0 30.0 | -    | 0.0  | 0.0  | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 117.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | -    |
| 120.0 30.0 | 0.0  | 0.0  | 1.3  | 0.0  | 0.0 | 7.3  | 0.0  | 0.0  | 2.0  | 3.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 120.0 37.0 | -    | -    | -    | -    | -   | -    | 0.9  | -    | -    | -    | -    | -    |
| 120.0 40.0 | -    | -    | 0.0  | 0.0  | 0.0 | 1.9  | -    | -    | -    | -    | -    | -    |
| 123.0 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | -    |
| 127.0 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 7.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 40.0 | 3.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 130.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | -    |
| 133.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 9.1  | 0.0  | 0.0  | -    |
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | -    |
| 133.0 50.0 | 3.2  | -    | 0.0  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 20.4 | 0.0  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 40.4 | 0.0  | -    |

*Icosteus aenigmaticus*

| STATION   | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 70.0 55.0 | -    | -    | -    | 2.7  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 80.0 60.0 | 0.0  | 0.0  | 4.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0 65.0 | -    | -    | -    | -    | 6.1 | -    | -    | -    | -    | -    | -    | -    |
| 87.0 70.0 | -    | -    | -    | 0.0  | 8.7 | 0.0  | -    | -    | -    | -    | -    | -    |

## Labridae

| STATION   | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|
| 70.0 60.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |
| 80.0 55.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 80.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 2.6  | 0.0  | -    |
| 80.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 85.0 40.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | -    |
| 85.0 45.0 | -    | -    | -    | -    | -    | -    | 8.8  | -    | -    | -    | -    | -    |
| 85.0 50.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 85.0 55.0 | -    | -    | -    | -    | -    | -    | 12.8 | -    | -    | -    | -    | -    |
| 85.0 60.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 11.4 | 19.7 | 0.0  | 0.0  | -    |
| 87.0 35.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 87.0 40.0 | -    | -    | -    | 0.0  | 0.0  | 1.4  | -    | -    | -    | -    | -    | -    |
| 87.0 45.0 | -    | -    | -    | 0.0  | 0.0  | 9.6  | -    | -    | -    | -    | -    | -    |
| 87.0 50.0 | -    | -    | -    | 0.0  | 0.0  | 2.4  | -    | -    | -    | -    | -    | -    |
| 87.0 60.0 | -    | -    | -    | 0.0  | 13.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0 28.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.9  | 58.3 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 31.0 | -    | -    | -    | -    | -    | 6.0  | -    | -    | -    | -    | -    | -    |
| 90.0 33.0 | -    | -    | -    | -    | -    | 5.6  | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Labridae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG.  | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 32.5 | 13.4 | 0.0   | 0.0  | -    | 2.7  | -    |
| 90.0    | 41.0 | -    | -    | -    | -    | 9.2  | -    | -     | 9.2  | -    | -    | -    |
| 90.0    | 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | 11.6  | 0.0  | 3.4  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 5.8   | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 12.0 | 4.6  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 5.1   | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 0.0  | 6.4  | 5.6  | 13.9 | 4.7   | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0 | -    | -    | -    | 0.0  | 6.4  | 6.3  | -     | -    | -    | -    | -    |
| 93.0    | 45.0 | -    | -    | -    | 0.0  | 0.0  | 9.2  | -     | -    | -    | -    | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 15.5 | 0.0   | 2.5  | 0.0  | 0.0  | -    |
| 93.0    | 55.0 | -    | -    | -    | 11.6 | 3.5  | 42.3 | -     | -    | -    | -    | -    |
| 93.0    | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.0 | -     | -    | -    | -    | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.0  | -    | 0.0  | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 12.2 | 3.2  | 0.0  | -    |
| 97.0    | 35.0 | -    | -    | -    | 7.4  | -    | -    | -     | -    | -    | -    | -    |
| 97.0    | 36.0 | -    | -    | -    | -    | 5.7  | -    | -     | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 6.3  | 6.1  | 39.6 | 103.0 | 7.6  | 22.3 | 0.0  | -    |
| 97.0    | 45.0 | 0.0  | 0.0  | 0.0  | 16.1 | 5.9  | 0.0  | -     | -    | -    | -    | -    |
| 97.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 32.7 | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 55.0 | -    | -    | -    | 0.0  | 12.6 | 5.4  | -     | -    | -    | -    | -    |
| 97.0    | 65.0 | -    | -    | -    | 0.0  | -    | -    | -     | -    | -    | -    | -    |
| 97.0    | 80.0 | -    | -    | 0.0  | 0.0  | 0.0  | 2.3  | -     | -    | -    | -    | -    |
| 100.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7   | 4.2  | 0.0  | 0.0  | -    |
| 100.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 4.6   | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0 | -    | -    | -    | 0.0  | 3.5  | 0.0  | -     | -    | -    | -    | -    |
| 100.0   | 50.0 | 0.0  | 0.0  | 0.0  | 2.3  | 3.2  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0 | -    | -    | -    | 0.0  | 3.3  | 0.0  | -     | -    | -    | -    | -    |
| 100.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 9.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0   | 8.2  | 0.0  | 0.0  | -    |
| 103.0   | 35.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 8.9   | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 5.5   | 0.0  | 2.3  | 0.0  | -    |
| 103.0   | 50.0 | -    | -    | 5.9  | 0.0  | 5.6  | -    | -     | -    | -    | -    | -    |
| 103.0   | 55.0 | -    | -    | 0.0  | 0.0  | 7.5  | -    | -     | -    | -    | -    | -    |
| 103.0   | 60.0 | -    | -    | 0.0  | 0.0  | 5.6  | -    | -     | -    | -    | -    | -    |
| 105.0   | 35.0 | 0.0  | 0.0  | -    | -    | -    | 5.4  | -     | -    | -    | -    | -    |
| 105.0   | 55.0 | -    | -    | -    | -    | -    | 2.4  | -     | -    | -    | -    | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 0.0   | 11.2 | 0.0  | 0.0  | -    |
| 107.0   | 45.0 | -    | -    | -    | 2.2  | 0.0  | -    | -     | -    | -    | -    | -    |
| 107.0   | 50.0 | -    | -    | 3.6  | 0.0  | 0.0  | -    | -     | -    | -    | -    | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.7  | 0.0  | -    |
| 110.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7   | -    | 0.0  | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 13.1 | 13.4 | 0.0  | -    |
| 113.0   | 55.0 | -    | -    | 0.0  | 0.0  | 0.0  | 2.5  | -     | -    | -    | -    | -    |
| 113.0   | 60.0 | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | -     | -    | -    | -    | -    |
| 117.0   | 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.8  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

## Labridae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 117.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 0.0  | -    |
| 117.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 3.8  | 0.0  | 0.0  | -    | -    | -    | -    |
| 118.0   | 35.0 | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 118.5   | 25.0 | -    | -    | -    | -   | -    | -    | 4.4  | -    | -    | -    | -    |
| 119.0   | 42.0 | -    | -    | -    | -   | -    | -    | 2.0  | -    | -    | -    | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 0.0  | 4.7  | 0.0  | -    |
| 120.0   | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 2.3  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 1.0  | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 1.3  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 34.4 | 0.0  | 0.0  | -    |
| 127.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0  | 0.0  | 2.7 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 5.0  | 71.3 | 3.2  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | -    |
| 130.0   | 50.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 2.3  | 23.6 | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 12.8 | 0.0  | 2.0  | -    |
| 133.0   | 50.0 | 3.2  | 0.0  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 45.6 | 8.5  | 8.5  | 0.0  | -    |
| 137.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 6.7  | -    |
| 150.0   | 30.0 | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Chromis punctipinnis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 87.0    | 40.0 | -    | -    | 0.0  | 0.0 | 2.4  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 90.0    | 31.0 | -    | -    | -    | -   | 3.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 5.3  | 8.0  | 8.2  | 0.0  | -    | 0.0  | -    |
| 90.0    | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 23.2 | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 0.0  | -    |
| 100.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 100.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 0.0  | -    |
| 103.0   | 40.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 17.6 | 0.0  | -    |
| 107.0   | 35.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 5.4  | 0.0  | -    |
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 6.1  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.1 | -    |
| 113.0   | 40.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 16.4 | 13.4 | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 2.6  | -    |
| 120.0   | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | -    |

TABLE 4. (cont.)

*Chromis punctipinnis* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 123.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 127.0 50.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    |

*Brama* spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |

## Carangidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 130.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 7.5  | 17.5 | 0.0  | -    |
| 130.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.2  | 5.5  | 0.0  | 0.0  | -    |
| 133.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 3.3  | 2.3  | 2.6  | 0.0  | -    |
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | -    |
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 68.4 | 72.7 | 10.2 | 0.0  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    |
| 137.0 35.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | 2.2  | -    | -    | -    | -    | -    |

*Trachurus symmetricus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY  | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 70.0 90.0  | -    | -    | -    | 0.0  | 0.0  | 7.9  | 0.0   | -    | -    | -    | -    | -    |
| 70.0 100.0 | -    | -    | -    | -    | 0.0  | 48.4 | -     | -    | -    | -    | -    | -    |
| 73.0 55.0  | -    | -    | -    | -    | 0.0  | 20.4 | 10.0  | -    | -    | -    | -    | -    |
| 73.0 60.0  | -    | -    | -    | 0.0  | 0.0  | -    | 156.9 | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0 50.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 2.7   | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0 55.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0   | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 77.0 65.0  | -    | -    | -    | -    | 0.0  | -    | 145.2 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 55.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.7   | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 14.5 | 0.0   | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 80.0 65.0  | -    | -    | -    | -    | -    | 38.3 | 10.2  | 6.6  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.8  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 39.9 | 0.0  | 0.0  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.6 | 0.0   | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 16.9 | 0.0   | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 83.0 60.0  | -    | -    | -    | 0.0  | 31.0 | 10.6 | -     | -    | -    | -    | -    | -    |
| 83.0 70.0  | -    | -    | -    | 0.0  | 5.8  | 58.8 | -     | -    | -    | -    | -    | -    |
| 83.0 85.0  | -    | -    | -    | 2.2  | 2.7  | -    | -     | -    | -    | -    | -    | -    |
| 83.0 90.0  | -    | -    | -    | 2.2  | 2.8  | 8.3  | -     | -    | -    | -    | -    | -    |
| 85.0 38.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | 0.0   | 2.8  | 0.0  | 2.0  | 0.0  | -    |

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

| STATION | JAN.  | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY   | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|---------|-------|------|-------|-------|-------|-------|--------|-------|-------|------|------|------|
| 85.0    | 40.0  | 0.0  | 0.0   | -     | -     | -     | 0.0    | 0.0   | 5.4   | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 0.0  | 0.0   | -     | -     | -     | 12.0   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 85.0    | 70.0  | 0.0  | 0.0   | -     | -     | -     | 65.3   | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 85.0    | 80.0  | -    | -     | -     | -     | -     | 51.4   | -     | -     | -    | -    | -    |
| 85.0    | 90.0  | -    | -     | -     | -     | -     | 51.8   | -     | -     | -    | -    | -    |
| 87.0    | 35.0  | -    | -     | 1.9   | 0.0   | 0.0   | -      | -     | -     | -    | -    | -    |
| 87.0    | 55.0  | -    | -     | -     | 0.0   | 70.7  | -      | -     | -     | -    | -    | -    |
| 87.0    | 60.0  | -    | -     | 0.0   | 54.9  | 26.5  | -      | -     | -     | -    | -    | -    |
| 87.0    | 70.0  | -    | -     | 0.0   | 17.4  | 134.4 | -      | -     | -     | -    | -    | -    |
| 87.0    | 75.0  | -    | -     | -     | 31.8  | -     | -      | -     | -     | -    | -    | -    |
| 87.0    | 80.0  | -    | -     | 25.7  | 4.9   | 175.7 | -      | -     | -     | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 5.7    | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 0.0  | 0.0   | 0.0   | 19.6  | 1.0   | 6.1    | 0.0   | 2.6   | 0.0  | 0.0  | -    |
| 90.0    | 33.0  | -    | -     | -     | -     | 2.8   | -      | -     | -     | -    | -    | -    |
| 90.0    | 37.0  | 0.0  | 0.0   | 0.0   | 31.5  | 5.9   | 2.7    | 5.5   | 2.8   | -    | 0.0  | -    |
| 90.0    | 39.0  | -    | -     | -     | -     | 3.0   | -      | -     | -     | -    | -    | -    |
| 90.0    | 41.0  | -    | -     | -     | -     | 3.1   | -      | -     | -     | -    | -    | -    |
| 90.0    | 45.0  | 0.0  | 0.0   | 0.0   | 0.0   | 25.0  | 0.0    | 0.0   | 2.4   | 0.0  | 0.0  | -    |
| 90.0    | 53.0  | 0.0  | 13.5  | 0.0   | 131.4 | 155.1 | 187.2  | 0.0   | 2.9   | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0   | 0.0   | 147.4 | 187.7 | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 90.0    | 65.0  | -    | -     | -     | 9.1   | 100.8 | -      | -     | 0.0   | -    | -    | -    |
| 90.0    | 70.0  | 0.0  | 19.8  | 489.0 | -     | 50.6  | 10.2   | 5.5   | 0.0   | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -     | -     | 427.7 | -     | -      | -     | -     | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 127.2 | 163.1 | 265.3 | 59.8  | 31.5   | -     | -     | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 186.3 | 177.5 | 121.0 | 5.7   | 3.0    | -     | -     | -    | -    | -    |
| 90.0    | 100.0 | -    | -     | 175.8 | -     | 30.3  | 0.0    | -     | -     | -    | -    | -    |
| 93.0    | 30.0  | 0.0  | 0.0   | 0.0   | 6.4   | 5.6   | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 93.0    | 35.0  | -    | -     | -     | 9.8   | 6.4   | 6.3    | -     | -     | -    | -    | -    |
| 93.0    | 40.0  | 0.0  | 0.0   | 0.0   | 40.3  | 110.7 | 28.6   | 0.0   | 57.6  | 0.0  | 0.0  | -    |
| 93.0    | 45.0  | -    | -     | -     | 6.5   | 42.4  | 92.4   | -     | -     | -    | -    | -    |
| 93.0    | 50.0  | 0.0  | 0.0   | 6.3   | 22.2  | 1.4   | 221.9  | 38.5  | 7.6   | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -    | -     | -     | 157.1 | 206.5 | 706.7  | -     | -     | -    | -    | -    |
| 93.0    | 60.0  | 0.0  | 5.6   | 72.0  | 26.2  | 88.5  | 253.0  | -     | -     | -    | -    | -    |
| 93.0    | 65.0  | -    | -     | -     | 32.6  | 88.0  | -      | -     | -     | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 37.0  | 21.3  | 95.7  | 161.9 | 15.4   | -     | -     | -    | -    | -    |
| 93.0    | 75.0  | -    | -     | -     | 54.4  | -     | -      | -     | -     | -    | -    | -    |
| 93.0    | 80.0  | -    | -     | 250.6 | 287.1 | 26.7  | 19.7   | -     | -     | -    | -    | -    |
| 93.0    | 90.0  | -    | -     | 116.7 | -     | -     | 2.9    | -     | -     | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 0.0   | 88.0  | -     | 0.0   | 0.0    | 5.1   | 6.1   | 3.2  | 0.0  | -    |
| 97.0    | 35.0  | -    | -     | -     | 14.7  | -     | -      | -     | -     | -    | -    | -    |
| 97.0    | 36.0  | -    | -     | -     | -     | 11.3  | -      | -     | -     | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 5.2   | 434.9 | 59.9  | 12.3  | 207.4  | 154.4 | 164.3 | 0.0  | 0.0  | -    |
| 97.0    | 45.0  | -    | -     | -     | 680.7 | 61.5  | 1012.3 | -     | -     | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 8.0   | 5.9   | 5.7   | 119.6 | 1294.9 | 226.3 | 14.3  | 0.0  | 0.0  | -    |
| 97.0    | 55.0  | -    | -     | -     | 10.5  | 18.4  | 257.3  | -     | -     | -    | -    | -    |
| 97.0    | 60.0  | 0.0  | 47.0  | 62.5  | 4.1   | 52.3  | 57.6   | -     | -     | -    | -    | -    |

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

| STATION     | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE  | JULY  | AUG. | SEP. | OCT. | NOV. | DEC. |
|-------------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 97.0 65.0   | -    | -    | -     | -     | 15.9  | 125.6 | -     | -    | -    | -    | -    | -    |
| 97.0 70.0   | 0.0  | 0.0  | 53.4  | 91.2  | 145.2 | 143.6 | 89.0  | -    | -    | -    | -    | -    |
| 97.0 75.0   | -    | -    | -     | -     | 49.1  | -     | -     | -    | -    | -    | -    | -    |
| 97.0 80.0   | -    | -    | -     | 28.5  | 127.8 | 51.5  | 50.2  | -    | -    | -    | -    | -    |
| 97.0 90.0   | -    | -    | -     | 42.8  | 64.9  | 70.1  | 32.2  | -    | -    | -    | -    | -    |
| 100.0 35.0  | -    | -    | -     | -     | -     | 4.5   | 0.0   | -    | -    | -    | -    | -    |
| 100.0 40.0  | 0.0  | 0.0  | 0.0   | 87.6  | 5.1   | 15.4  | 43.3  | 11.6 | 0.0  | 0.0  | 0.0  | -    |
| 100.0 45.0  | -    | -    | -     | -     | 28.3  | 24.7  | 180.8 | -    | -    | -    | -    | -    |
| 100.0 50.0  | -    | 0.0  | 0.0   | 16.3  | 0.0   | 14.5  | 21.8  | 5.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 55.0  | -    | -    | -     | -     | 52.2  | 13.2  | 6.6   | -    | -    | -    | -    | -    |
| 100.0 60.0  | -    | 0.0  | 34.3  | 22.4  | 65.6  | 19.5  | 0.0   | 9.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 65.0  | -    | 0.0  | -     | -     | 14.6  | 18.6  | -     | -    | -    | -    | -    | -    |
| 100.0 70.0  | 1.6  | 0.0  | 118.5 | 103.2 | 2.6   | 42.3  | 128.8 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 75.0  | -    | -    | -     | -     | 25.2  | -     | -     | -    | -    | -    | -    | -    |
| 100.0 80.0  | 0.0  | 0.0  | 2.8   | 73.8  | 6.9   | 114.5 | 13.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 90.0  | 0.0  | 0.0  | 125.5 | 22.1  | 97.7  | 26.1  | 8.1   | -    | -    | -    | -    | -    |
| 100.0 100.0 | -    | -    | -     | 72.2  | -     | 10.0  | 3.0   | -    | -    | -    | -    | -    |
| 103.0 35.0  | -    | -    | -     | 0.0   | 51.3  | 2.8   | -     | 8.9  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 40.0  | -    | -    | -     | 19.1  | 146.9 | 0.0   | -     | 5.5  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 45.0  | -    | -    | -     | -     | 18.1  | -     | -     | -    | -    | -    | -    | -    |
| 103.0 50.0  | -    | -    | -     | 35.6  | 25.6  | 11.3  | -     | -    | -    | -    | -    | -    |
| 103.0 60.0  | -    | -    | -     | 56.7  | 82.9  | 25.2  | -     | -    | -    | -    | -    | -    |
| 103.0 65.0  | -    | -    | -     | -     | 29.3  | 43.9  | -     | -    | -    | -    | -    | -    |
| 103.0 70.0  | -    | -    | -     | 60.4  | 111.0 | 207.9 | -     | -    | -    | -    | -    | -    |
| 103.0 75.0  | -    | -    | -     | -     | 16.8  | 55.3  | -     | -    | -    | -    | -    | -    |
| 103.0 80.0  | -    | -    | -     | 6.6   | 27.4  | 37.3  | -     | -    | -    | -    | -    | -    |
| 103.0 90.0  | -    | -    | -     | 9.5   | 42.6  | 29.8  | -     | -    | -    | -    | -    | -    |
| 105.0 35.0  | 0.0  | 0.0  | 0.0   | -     | -     | -     | 143.6 | -    | -    | -    | -    | -    |
| 105.0 40.0  | 0.0  | 0.0  | 2.5   | -     | -     | -     | 31.8  | -    | -    | -    | -    | -    |
| 105.0 45.0  | -    | -    | -     | -     | -     | -     | 13.1  | -    | -    | -    | -    | -    |
| 105.0 50.0  | 0.0  | 0.0  | 2.7   | -     | -     | -     | 46.9  | -    | -    | -    | -    | -    |
| 105.0 55.0  | -    | -    | -     | -     | -     | -     | 31.6  | -    | -    | -    | -    | -    |
| 105.0 60.0  | 0.0  | 0.0  | 160.7 | -     | -     | -     | 13.9  | -    | -    | -    | -    | -    |
| 105.0 70.0  | 0.0  | 0.0  | 9.5   | -     | -     | -     | 54.9  | -    | -    | -    | -    | -    |
| 105.0 80.0  | 0.0  | 0.0  | -     | -     | -     | -     | 16.9  | -    | -    | -    | -    | -    |
| 105.0 90.0  | -    | -    | -     | -     | -     | -     | 42.1  | -    | -    | -    | -    | -    |
| 107.0 32.0  | -    | -    | -     | 28.7  | 0.0   | 0.0   | -     | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0 35.0  | -    | -    | -     | 8.9   | 17.3  | 6.4   | -     | 2.8  | 0.0  | 2.7  | 0.0  | -    |
| 107.0 40.0  | -    | -    | -     | 0.0   | 19.7  | 15.5  | -     | 0.0  | 0.0  | -    | -    | -    |
| 107.0 45.0  | -    | -    | -     | -     | 13.2  | 9.8   | -     | -    | -    | -    | -    | -    |
| 107.0 50.0  | -    | -    | -     | 57.4  | 13.7  | 18.1  | -     | -    | -    | -    | -    | -    |
| 107.0 55.0  | -    | -    | -     | -     | -     | 24.2  | -     | -    | -    | -    | -    | -    |
| 107.0 60.0  | -    | -    | -     | 24.3  | 23.1  | 3.0   | -     | -    | -    | -    | -    | -    |
| 107.0 65.0  | -    | -    | -     | -     | -     | 17.9  | -     | -    | -    | -    | -    | -    |
| 107.0 70.0  | -    | -    | -     | 37.9  | 5.3   | 27.0  | -     | -    | -    | -    | -    | -    |
| 107.0 80.0  | -    | -    | -     | 21.5  | 43.2  | 11.9  | -     | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY   | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|-------|-------|-------|------|------|------|------|------|------|------|
| 110.0   | 33.0 | 0.0  | -     | 0.0   | 12.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0 | 0.0  | 0.0   | 0.0   | 253.5 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0 | 0.0  | 0.0   | 56.4  | 0.0   | 19.5 | 12.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 45.0 | -    | -     | -     | 24.7  | 7.8  | -    | -    | -    | -    | -    | -    |
| 110.0   | 50.0 | 0.0  | 8.9   | 44.4  | 11.1  | 10.9 | 5.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 55.0 | -    | -     | -     | -     | 18.6 | -    | -    | -    | -    | -    | -    |
| 110.0   | 60.0 | 0.0  | 29.0  | 37.6  | 20.6  | 6.5  | 38.1 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 65.0 | -    | -     | -     | -     | 11.2 | -    | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 0.0  | 18.8  | 29.5  | 20.8  | 46.3 | 11.3 | -    | -    | -    | -    | -    |
| 110.0   | 80.0 | 0.0  | -     | 94.8  | 144.3 | 18.6 | 12.6 | -    | -    | -    | -    | -    |
| 110.0   | 90.0 | 0.0  | -     | 179.9 | 10.9  | 0.0  | 11.0 | -    | -    | -    | -    | -    |
| 113.0   | 35.0 | 0.0  | 2.7   | 23.1  | 3.2   | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 5.5   | 7.0   | 15.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 45.0 | -    | -     | 17.6  | 58.2  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 50.0 | 0.0  | 147.4 | 22.3  | 31.8  | 0.0  | 2.6  | -    | -    | -    | -    | -    |
| 113.0   | 55.0 | 0.0  | -     | 46.9  | 9.3   | 0.0  | 10.2 | -    | -    | -    | -    | -    |
| 113.0   | 60.0 | 0.0  | 11.0  | 21.3  | 22.0  | 13.0 | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 65.0 | -    | -     | 13.9  | 3.3   | 16.1 | -    | -    | -    | -    | -    | -    |
| 113.0   | 70.0 | 0.0  | -     | 68.2  | 28.9  | 32.2 | 5.8  | -    | -    | -    | -    | -    |
| 117.0   | 30.0 | 0.0  | 0.0   | 0.0   | 1.8   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 0.0   | 0.0   | 6.1   | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 117.0   | 45.0 | -    | 0.0   | 9.4   | 2.2   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 55.0 | -    | 0.0   | 0.0   | 10.8  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0   | 60.0 | 0.0  | 2.7   | 1.5   | 2.6   | 0.0  | 3.3  | -    | -    | -    | -    | -    |
| 117.0   | 65.0 | -    | -     | 20.3  | 0.0   | 62.8 | -    | -    | -    | -    | -    | -    |
| 117.0   | 70.0 | -    | -     | 3.0   | 6.8   | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 45.0 | 0.0  | 1.5   | 1.5   | 6.5   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 0.0   | 0.0   | 0.0   | 11.3 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 2.9   | 0.0   | 0.0   | 34.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 60.0 | 0.0  | 3.9   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 3.0   | 5.9   | 0.0   | 26.2 | -    | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 5.5   | 6.1   | 13.6  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 45.0 | 0.0  | 6.1   | 2.9   | 16.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 2.9   | 5.6   | 17.7  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0   | 17.9  | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0   | 5.5   | 6.2   | 2.9  | 6.1  | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | 0.0  | 1.3   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | 0.0  | 6.1   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 22.1  | 0.0   | 0.0   | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | 0.0  | 11.1  | 11.8  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 0.0   | 26.3  | 0.0   | 0.0  | -    | -    | -    | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 3.1   | 0.0   | 0.0   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 35.0 | 0.0  | 0.0   | 2.7   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0   | 0.0   | 19.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 0.0   | 3.1   | 54.0  | 14.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |



TABLE 4. (cont.)

*Trachurus symmetricus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0   | 55.0 | -    | 0.0  | 57.8 | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 2.5  | 46.4 | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 5.1  | 0.0  | 0.0  | -    |

*Girella nigricans*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.3  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 39.0 | -    | -    | -    | -   | 3.0  | -    | -    | -    | -    | -    | -    |
| 100.0   | 45.0 | -    | -    | -    | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 100.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | -    |

*Medialuna californiensis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 33.0 | -    | -    | -    | -   | 2.8  | -    | -    | -    | -    | -    | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 11.0 | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 45.0 | -    | -    | -    | 0.0 | 0.0  | 23.7 | -    | -    | -    | -    | -    |
| 100.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 55.0 | -    | -    | -    | 0.0 | 0.0  | 6.6  | -    | -    | -    | -    | -    |
| 105.0   | 45.0 | -    | -    | -    | -   | -    | 3.3  | -    | -    | -    | -    | -    |
| 105.0   | 55.0 | -    | -    | -    | -   | -    | 26.7 | -    | -    | -    | -    | -    |
| 107.0   | 40.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 3.9  | 0.0  | -    | -    | -    |
| 110.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 10.8 | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | -    |

## Sciaenidae

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 85.0    | 38.0 | 0.0  | 33.4 | 25.6 | -   | -    | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 85.0    | 40.0 | 0.0  | 2.5  | 0.0  | -   | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 50.0 | 0.0  | 0.0  | 0.0  | -   | -    | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 7.2  | 0.0  | 0.0  | 40.3 | -    |
| 90.0    | 30.0 | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 24.6 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 6.6  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 1.9  | 0.0 | 0.0  | 2.8  | 0.0  | 0.8  | 0.0  | 3.0  | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 14.2 | -    |

TABLE 4. (cont.)

## Sciaenidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.1  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 5.9  | 10.1 | 0.0  | 14.5 | 2.7  | 22.2 | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 23.5 | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | -    | -   | -    | -    | 4.2  | -    | -    | -    | -    |
| 115.0   | 27.0 | 43.1 | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 115.0   | 30.0 | -    | -    | -    | -   | -    | -    | 5.0  | -    | -    | -    | -    |
| 117.0   | 26.0 | -    | -    | -    | -   | -    | -    | 3.6  | 2.8  | 1.6  | 16.5 | -    |
| 117.0   | 30.0 | 3.1  | 0.0  | 0.0  | 0.0 | 1.9  | 3.5  | 0.0  | 5.1  | 2.2  | 0.0  | -    |
| 118.5   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2  | -    | -    | -    | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 5.2  | -    | -    | -    | -    |
| 120.0   | 25.0 | -    | -    | -    | -   | -    | -    | 1.3  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 4.6  | 0.0  | 0.0  | 0.0 | 0.0  | 2.3  | 6.7  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 1.6  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 1.0  | -    | -    | -    | -    |
| 123.0   | 40.0 | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 6.7  | 6.9  | 0.0  | 0.0  | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 18.8 | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 2.3  | 4.8  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 10.5 | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | -    |

## Serranidae

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP.  | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 8.0  | 0.0  | 0.0   | -    | 0.0  | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 22.9 | 0.0   | 3.2  | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | -    | -   | -    | -    | 2.1  | -     | -    | -    | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.7  | 0.0   | 0.0  | 0.0  | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 5.2  | -     | -    | -    | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 9.1  | -     | -    | -    | -    |
| 119.0   | 33.0 | -    | -    | -    | -   | -    | -    | 17.5 | -     | -    | -    | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.7  | 13.3 | 0.0   | 9.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 22.7 | 0.0   | 2.3  | 0.0  | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 2.5  | -     | -    | -    | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 2.0  | -     | -    | -    | -    |
| 121.0   | 34.0 | -    | -    | -    | -   | -    | -    | 2.0  | -     | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 88.2  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 101.0 | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 37.8  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 26.0 | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 12.9 | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 16.5 | 0.0   | 2.6  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0   | 3.7  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 6.9  | 0.0  | 0.0   | 5.1  | 0.0  | -    |

TABLE 4. (cont.)

## Gempylidae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |

## Scombridae

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 11.7 | 0.0  | 0.0  | 0.0  | 0.0  | -    |

## Auxis spp.

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 15.2 | 0.0  | 0.0  | 0.0  | -    |

## Scomber japonicus

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 24.6 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 53.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0 100.0 | -    | -    | -    | 2.9  | -   | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 10.3 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0 55.0  | -    | -    | -    | -    | 0.0 | 0.0  | 12.1 | -    | -    | -    | -    | -    |
| 93.0 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 11.0 | -    | -    | -    | -    | -    |
| 93.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 3.8  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 90.0  | -    | -    | -    | 0.0  | -   | -    | 2.9  | -    | -    | -    | -    | -    |
| 97.0 35.0  | -    | -    | -    | -    | 3.7 | -    | -    | -    | -    | -    | -    | -    |
| 97.0 45.0  | -    | -    | -    | -    | 5.4 | 0.0  | 17.8 | -    | -    | -    | -    | -    |
| 97.0 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 90.0  | -    | -    | -    | 0.0  | 0.0 | 10.0 | 2.9  | -    | -    | -    | -    | -    |
| 100.0 65.0 | -    | -    | -    | -    | 0.0 | 3.7  | -    | -    | -    | -    | -    | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 70.0 | -    | -    | -    | 0.0  | 6.3 | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0 80.0 | -    | -    | -    | 0.0  | 0.0 | 22.4 | -    | -    | -    | -    | -    | -    |
| 105.0 80.0 | 0.0  | 0.0  | -    | -    | -   | -    | 2.4  | -    | -    | -    | -    | -    |
| 110.0 33.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | -    |
| 110.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 80.0 | 0.0  | 0.0  | -    | 0.0  | 6.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 3.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | -    |
| 117.0 35.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 4.5  | -    |
| 117.0 50.0 | -    | 0.0  | 0.0  | 0.0  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 117.0 55.0 | -    | -    | 0.0  | 0.0  | 3.6 | 53.6 | 0.0  | -    | -    | -    | -    | -    |
| 118.5 30.0 | -    | -    | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 120.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.2  | 0.0  | 4.7  | 0.0  | -    |

TABLE 4. (cont.)

*Scomber japonicus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 13.3 | 0.0  | 0.0  | 1.8  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.0 | 0.0  | 21.1 | 0.0  | -    |
| 120.0   | 45.0 | 0.0  | 0.0  | 5.6  | 29.3 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 121.0   | 30.0 | -    | -    | -    | -    | -    | -    | 3.0  | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 29.4 | 3.3  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.2 | 6.6  | 0.0  | -    |
| 123.0   | 45.0 | -    | 0.0  | 4.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.8 | 37.8 | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | 0.0  | 0.0  | 34.4 | 19.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 27.6 | 53.1 | 3.4  | 0.0  | 0.0  | -    | 0.0  | -    | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.9 | 6.3  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 16.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 0.0  | 21.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 25.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 2.9  | 66.7 | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 35.0 | -    | 0.0  | 5.9  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 23.0 | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.1  | 0.0  | 0.0  | -    |
| 137.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 140.0   | 35.0 | 5.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    | -    |
| 147.0   | 20.0 | 38.4 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |

*Trichiuridae*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 90.0 | 0.0  | 0.0  | 0.0  | 2.6 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 110.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 13.8 | 1.5  | 0.0  | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.9  | -    | -    | -    | -    | -    |
| 127.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 3.3  | 2.5  | 0.0  | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 7.5  | 0.0  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 2.4  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.9  | 3.2  | 0.0  | -    |
| 130.0   | 45.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 2.5  | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 4.5  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 133.0   | 40.0 | 20.3 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Trichiuridae (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0 50.0 | 3.2  | -    | 0.0  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 7.6  | 5.1  | 1.7  | 0.0  | -    |
| 137.0 40.0 | 3.3  | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.9  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 113.0 40.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 13.1 | 0.0  | 0.0  | -    |
| 118.5 30.0 | -    | -    | -    | -    | -   | -    | -    | 5.2  | -    | -    | -    | -    |
| 118.5 35.0 | -    | -    | -    | -    | -   | -    | -    | 6.0  | -    | -    | -    | -    |
| 119.0 33.0 | -    | -    | -    | -    | -   | -    | -    | 26.3 | -    | -    | -    | -    |
| 119.0 42.0 | -    | -    | -    | -    | -   | -    | -    | 2.0  | -    | -    | -    | -    |
| 120.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | -    |
| 121.0 34.0 | -    | -    | -    | -    | -   | -    | -    | 6.0  | -    | -    | -    | -    |
| 133.0 25.0 | 1.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 137.0 23.0 | 3.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

## Sphyraena argentea

## Icichthys lockingtoni

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0 60.0  | -    | -    | -    | -    | -   | -    | 5.4  | -    | -    | -    | -    | -    |
| 40.0 70.0  | -    | -    | -    | -    | -   | -    | 11.9 | -    | -    | -    | -    | -    |
| 40.0 90.0  | -    | -    | -    | -    | -   | -    | 6.2  | -    | -    | -    | -    | -    |
| 53.0 55.0  | -    | -    | -    | -    | -   | 3.8  | 0.0  | -    | -    | -    | -    | -    |
| 60.0 55.0  | -    | -    | -    | 0.0  | -   | 0.0  | -    | 3.0  | 0.0  | 4.3  | 0.0  | -    |
| 60.0 60.0  | -    | -    | -    | 0.0  | -   | 0.0  | 7.3  | -    | 0.0  | 4.9  | 3.0  | -    |
| 60.0 70.0  | -    | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 2.0  | 5.0  | 2.9  | -    |
| 60.0 80.0  | -    | -    | -    | 0.0  | 2.8 | -    | -    | -    | 0.0  | 5.5  | 0.0  | -    |
| 60.0 100.0 | -    | -    | -    | 0.0  | 2.8 | 0.0  | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0 110.0 | -    | -    | -    | -    | -   | -    | -    | -    | 0.0  | 0.0  | 2.9  | -    |
| 63.0 65.0  | -    | -    | -    | -    | 0.0 | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 67.0 55.0  | -    | -    | -    | 0.0  | 6.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -    |
| 67.0 65.0  | -    | -    | -    | -    | -   | 0.0  | 0.0  | 0.0  | 0.0  | 12.4 | 5.3  | -    |
| 70.0 60.0  | -    | -    | -    | 17.2 | 0.0 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0 70.0  | -    | -    | -    | 4.4  | 0.0 | 6.3  | 7.8  | 0.0  | 7.2  | 0.0  | 0.0  | -    |
| 70.0 80.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | -    |
| 73.0 50.0  | -    | -    | -    | 0.0  | 0.0 | 2.9  | 0.0  | 2.6  | 0.0  | 0.0  | -    | -    |
| 73.0 55.0  | -    | -    | -    | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 73.0 60.0  | -    | -    | -    | 0.0  | 0.0 | -    | 17.7 | 0.0  | 0.0  | 12.5 | -    | -    |
| 77.0 50.0  | -    | -    | -    | 0.0  | 0.0 | 0.0  | 10.8 | 0.0  | 0.0  | -    | -    | -    |

TABLE 4. (cont.)

*Icichthys lockingtoni* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.0    | 55.0 | -    | -    | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 2.9  | -    |
| 77.0    | 60.0 | -    | -    | -    | 2.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 65.0 | -    | -    | -    | 0.0  | -    | 66.0 | 0.0  | 0.0  | 0.0  | 5.4  | -    |
| 80.0    | 51.0 | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.7  | 5.8  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0 | 8.3  | 0.0  | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 80.0    | 65.0 | -    | -    | -    | -    | 19.1 | 0.0  | -    | -    | -    | -    | -    |
| 80.0    | 70.0 | 10.2 | 19.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0 | 14.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | -    |
| 80.0    | 85.0 | -    | -    | 2.8  | 2.9  | -    | 0.0  | 0.0  | -    | 0.0  | 0.0  | -    |
| 83.0    | 55.0 | 27.0 | -    | 0.0  | 0.0  | 30.1 | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0 | -    | -    | 0.0  | 3.2  | 3.5  | -    | -    | -    | -    | -    | -    |
| 83.0    | 65.0 | -    | -    | 0.0  | 11.2 | -    | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -    | -    | 4.3  | 0.0  | 29.4 | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0 | -    | -    | 0.0  | 0.0  | 8.5  | -    | -    | -    | -    | -    | -    |
| 83.0    | 90.0 | -    | -    | 0.0  | 0.0  | 2.8  | -    | -    | -    | -    | -    | -    |
| 85.0    | 55.0 | -    | -    | 0.0  | -    | -    | 6.4  | -    | -    | -    | -    | -    |
| 85.0    | 60.0 | 0.0  | 0.0  | -    | -    | -    | 0.0  | 11.4 | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 70.0 | 0.0  | 0.0  | -    | -    | -    | 8.2  | -    | -    | -    | -    | -    |
| 85.0    | 80.0 | -    | -    | -    | -    | -    | 2.6  | -    | -    | -    | -    | -    |
| 85.0    | 90.0 | -    | -    | -    | -    | -    | 6.5  | -    | -    | -    | -    | -    |
| 87.0    | 55.0 | -    | -    | -    | 0.0  | 38.1 | -    | -    | -    | -    | -    | -    |
| 87.0    | 60.0 | -    | -    | 5.8  | 0.0  | 13.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0 | -    | -    | -    | 30.7 | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -    | -    | 0.0  | 17.4 | 11.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 75.0 | -    | -    | -    | 5.8  | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -    | -    | 0.0  | 2.5  | 2.9  | -    | -    | -    | -    | -    | -    |
| 90.0    | 33.0 | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 41.0 | -    | -    | -    | -    | 3.1  | -    | -    | -    | -    | -    | -    |
| 90.0    | 45.0 | 2.7  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 3.4  | 7.8  | 8.8  | 14.8 | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 60.0 | 2.5  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0 | 14.1 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 90.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 4.8  | 0.0  | 10.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0 | 2.4  | 0.0  | 0.0  | 0.0  | 7.1  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 45.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 10.3 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 55.0 | -    | -    | -    | 0.0  | 14.0 | 6.0  | -    | -    | -    | -    | -    |
| 93.0    | 60.0 | 8.2  | 0.0  | 0.0  | 0.0  | 11.0 | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 5.1  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 35.0 | -    | -    | -    | 3.7  | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 36.0 | -    | -    | -    | -    | 2.8  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 5.8  | 0.0  | 1.5  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Icichthys lockingtoni* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.0 45.0  | -    | -    | -    | -    | 16.1 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 97.0 50.0  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 1.7  | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0 55.0  | -    | -    | -    | -    | 0.0  | 6.1  | 2.7  | -    | -    | -    | -    | -    |
| 97.0 60.0  | 0.0  | 0.0  | 5.9  | 0.0  | 0.0  | 3.3  | 5.2  | -    | -    | -    | -    | -    |
| 97.0 65.0  | -    | -    | -    | -    | 0.0  | 3.1  | -    | -    | -    | -    | -    | -    |
| 97.0 80.0  | -    | -    | -    | -    | 0.0  | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 100.0 29.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 40.0 | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 50.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 100.0 60.0 | -    | 2.4  | 2.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 90.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 103.0 50.0 | -    | -    | -    | 8.9  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 105.0 35.0 | 2.1  | 0.0  | 0.0  | -    | -    | -    | 0.0  | -    | -    | -    | -    | -    |
| 105.0 50.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | 3.3  | -    | -    | -    | -    | -    |
| 107.0 35.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 107.0 50.0 | -    | -    | -    | 3.6  | 3.4  | 0.0  | -    | -    | -    | -    | -    | -    |
| 113.0 35.0 | -    | 6.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 113.0 60.0 | -    | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |

*Peprilus simillimus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.0 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 97.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 33.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | -    |
| 113.0 30.0 | -    | 2.9  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 9.6  | 0.0  | 4.4  | -    |
| 115.0 26.0 | -    | -    | -    | -    | -    | -    | -    | 12.5 | -    | -    | -    | -    |
| 117.0 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | -    |
| 117.0 30.0 | -    | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 117.0 35.0 | -    | 0.0  | 12.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | -    |
| 117.0 40.0 | -    | 0.0  | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 0.0  | 0.0  | 0.0  | -    |
| 118.5 30.0 | -    | -    | -    | -    | -    | -    | -    | 10.5 | -    | -    | -    | -    |
| 118.5 35.0 | -    | -    | -    | -    | -    | -    | -    | 6.0  | -    | -    | -    | -    |
| 119.0 33.0 | -    | -    | -    | -    | -    | -    | -    | 35.0 | -    | -    | -    | -    |
| 119.0 42.0 | -    | -    | -    | -    | -    | -    | -    | 2.0  | -    | -    | -    | -    |
| 120.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 30.0 | 0.0  | 5.4  | 2.2  | 2.6  | 17.6 | 36.4 | 62.6 | 2.2  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 16.0 | 2.7  | 3.0  | 8.4  | 0.0  | 6.6  | 0.0  | 0.0  | 4.1  | -    |
| 120.0 37.0 | -    | -    | -    | -    | -    | -    | 0.9  | -    | -    | -    | -    | -    |
| 120.0 40.0 | -    | -    | 0.0  | 0.0  | 1.3  | 9.4  | -    | -    | -    | -    | -    | -    |
| 120.0 45.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 121.0 34.0 | -    | -    | -    | -    | -    | -    | -    | 2.0  | -    | -    | -    | -    |
| 123.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 55.0 | -    | -    | 3.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0 30.0 | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Peprilus similimus* (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0 25.0 | 0.0  | 3.0  | 3.9  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0 23.0 | 0.0  | 2.6  | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Tetragonurus cuvieri*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 60.0 110.0 | -    | -    | -    | -    | -   | -    | -    | -    | 7.5  | 0.0  | 0.0  | -    |
| 80.0 80.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 80.0 90.0  | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | -    |
| 80.0 100.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 90.0 80.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 93.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | -    |
| 97.0 50.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 100.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 100.0 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | -    |
| 110.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | -    |
| 110.0 70.0 | 2.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | -    |
| 110.0 80.0 | 3.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 60.0 | -    | 2.8  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 45.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | -    |

*Chiasmodontidae*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 70.0  | 0.0  | 0.0  | 0.0  | 3.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 70.0 | 0.0  | 0.0  | 0.0  | 3.3  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 105.0 70.0 | 0.0  | 0.0  | 1.9  | -    | -   | -    | 0.0  | -    | -    | -    | -    | -    |
| 107.0 35.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 2.8  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 110.0 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 110.0 60.0 | -    | 0.0  | 0.0  | 0.0  | 3.0 | 3.2  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |
| 110.0 80.0 | 3.3  | 2.7  | -    | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 50.0 | -    | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 113.0 70.0 | -    | 0.0  | -    | 0.0  | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 120.0 70.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 9.4  | 0.0  | 0.0  | 0.0  | 3.1  | -    |
| 120.0 80.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 123.0 40.0 | 0.0  | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 50.0 | 0.0  | -    | 1.6  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0 55.0 | -    | -    | 0.0  | 5.8  | 0.0 | 0.0  | -    | 0.0  | -    | -    | -    | -    |
| 127.0 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 3.1  | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Chiasmodontidae (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 50.0 | 0.0  | 0.0  | 0.0  | 2.8 | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 2.6  | -    | -   | -    | -    | -    | -    | -    | -    | -    |
| 130.0   | 55.0 | -    | 0.0  | 5.8  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 45.0 | -    | 0.0  | 2.8  | 0.0 | 0.0  | 4.9  | -    | -    | -    | -    | -    |
| 133.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | -    | 12.1 | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 1.6  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

## Pleuronectiformes

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 63.0    | 55.0 | -    | -    | 0.0  | 0.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 40.0 | -    | -    | 0.0  | 0.0 | 2.4  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | -    | 4.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0 | 4.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 33.0 | 4.1  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 119.0   | 33.0 | -    | -    | -    | -   | -    | -    | 17.5 | -    | -    | -    | -    |
| 119.0   | 42.0 | -    | -    | -    | -   | -    | -    | 2.0  | -    | -    | -    | -    |
| 120.0   | 35.0 | 1.7  | 0.7  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 1.8  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | -    |

## Bothidae

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | -    |

## Citharichthys spp.

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 47.0    | 55.0  | -    | -    | -    | -   | -    | 13.5 | -    | -    | -    | -    | -    |
| 60.0    | 55.0  | -    | -    | 0.0  | -   | 0.0  | -    | 0.0  | 0.0  | 0.0  | 4.1  | -    |
| 60.0    | 60.0  | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 9.9  | 9.0  | -    |
| 60.0    | 70.0  | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 54.6 | 2.9  | -    |
| 60.0    | 80.0  | -    | -    | 0.0  | 2.8 | -    | -    | -    | 0.0  | 2.8  | 5.5  | -    |
| 60.0    | 90.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | -    | 0.0  | 0.0  | 14.9 | -    |
| 60.0    | 100.0 | -    | -    | -    | 0.0 | 0.0  | -    | -    | 0.0  | 0.0  | 5.0  | -    |
| 60.0    | 110.0 | -    | -    | -    | 0.0 | 0.0  | -    | -    | 0.0  | 0.0  | 11.4 | -    |
| 63.0    | 52.0  | -    | -    | 0.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |
| 63.0    | 55.0  | -    | -    | 0.0  | 0.0 | 2.7  | 0.0  | 0.0  | 0.0  | 44.5 | 37.5 | -    |

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP.  | OCT.  | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|-------|-------|------|------|
| 67.0    | 50.0 | -    | -    | 0.0  | 0.0  | 0.0  | -    | 2.9  | 0.0   | -     | 0.0  | -    |
| 67.0    | 55.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 24.7 | 22.3  | 146.6 | 0.0  | -    |
| 67.0    | 65.0 | -    | -    | -    | -    | 0.0  | 0.0  | 6.6  | 0.0   | 61.8  | 24.0 | -    |
| 70.0    | 51.0 | -    | -    | -    | -    | -    | 0.0  | 11.0 | 0.0   | -     | 0.0  | -    |
| 70.0    | 60.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 0.0   | 52.6  | 29.4 | -    |
| 70.0    | 70.0 | -    | -    | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 14.6  | 0.0  | -    |
| 70.0    | 80.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.1   | 0.0  | -    |
| 73.0    | 50.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.3   | -    | -    |
| 73.0    | 60.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 112.3 | -    | -    |
| 77.0    | 50.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0   | -     | -    | -    |
| 77.0    | 55.0 | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 6.5   | 2.9  | -    |
| 77.0    | 65.0 | -    | -    | -    | 3.2  | -    | 0.0  | 0.0  | 104.0 | 6.4   | 2.7  | -    |
| 80.0    | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 1.7  | -    |
| 80.0    | 55.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.2   | 6.1   | 16.4 | -    |
| 80.0    | 60.0 | 0.0  | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 32.9 | 39.2  | 43.9  | 13.3 | -    |
| 80.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | -    |
| 80.0    | 85.0 | 0.0  | -    | -    | 2.9  | -    | -    | -    | -     | -     | 0.0  | -    |
| 80.0    | 90.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | -    |
| 83.0    | 55.0 | -    | -    | 0.0  | 0.0  | 5.0  | -    | -    | -     | -     | -    | -    |
| 85.0    | 38.0 | 2.2  | 3.2  | -    | -    | -    | 2.4  | 11.3 | 10.1  | 15.6  | 23.0 | -    |
| 85.0    | 40.0 | 10.1 | 8.8  | -    | -    | -    | 2.6  | 7.9  | 5.4   | 6.8   | 25.5 | -    |
| 85.0    | 45.0 | -    | -    | -    | -    | -    | 8.8  | -    | -     | -     | -    | -    |
| 85.0    | 50.0 | 2.7  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 30.3  | 91.3  | 31.1 | -    |
| 85.0    | 60.0 | 21.3 | 0.0  | -    | -    | -    | 0.0  | 11.4 | 8.5   | 0.0   | 0.0  | -    |
| 85.0    | 70.0 | 2.6  | 2.3  | -    | -    | -    | 2.7  | -    | -     | -     | -    | -    |
| 87.0    | 40.0 | -    | 9.6  | 0.0  | 3.1  | 0.0  | -    | -    | -     | -     | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7  | 4.8  | 0.0   | 0.0   | 4.7  | -    |
| 90.0    | 30.0 | 4.8  | 0.0  | 0.0  | 2.2  | 1.6  | 3.1  | 0.0  | 0.0   | 0.0   | 32.0 | -    |
| 90.0    | 31.0 | -    | 0.0  | 0.0  | -    | 3.0  | -    | -    | -     | -     | -    | -    |
| 90.0    | 37.0 | 2.5  | 5.4  | 2.6  | 0.0  | 11.3 | 0.0  | 2.7  | 8.3   | -     | 49.3 | -    |
| 90.0    | 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 13.6  | 8.9  | -    |
| 90.0    | 53.0 | 4.6  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 17.3 | 0.0   | 3.0   | 11.2 | -    |
| 90.0    | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0   | 4.6   | 15.7 | -    |
| 90.0    | 70.0 | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   | 8.2  | -    |
| 90.0    | 80.0 | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -     | -     | -    | -    |
| 93.0    | 27.0 | 0.0  | 1.9  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 5.6   | 64.9 | -    |
| 93.0    | 30.0 | 7.8  | 0.0  | 3.0  | 0.0  | 9.9  | 11.1 | 0.0  | 0.0   | 0.0   | 47.6 | -    |
| 93.0    | 35.0 | -    | -    | -    | 0.0  | 6.4  | 0.0  | -    | 3.0   | -     | -    | -    |
| 93.0    | 40.0 | 7.2  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | -     | 2.6   | 76.2 | -    |
| 93.0    | 45.0 | -    | -    | -    | 55.1 | 0.0  | 4.6  | -    | -     | -     | -    | -    |
| 93.0    | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5   | 0.0   | 0.0  | -    |
| 93.0    | 55.0 | -    | -    | -    | 2.9  | 0.0  | 6.0  | -    | -     | -     | -    | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | -    | 1.7  | 0.0  | 0.0  | 0.0  | 21.8  | -     | 0.0  | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 0.0  | -    | 6.1  | 0.0  | 2.5  | 142.8 | 82.7  | 19.4 | -    |
| 97.0    | 35.0 | -    | -    | -    | 3.7  | -    | -    | -    | -     | -     | -    | -    |
| 97.0    | 36.0 | -    | -    | -    | -    | 2.8  | -    | -    | -     | -     | -    | -    |

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

| STATION | JAN. | FEB. | MAR.  | APR. | MAY  | JUNE  | JULY  | AUG.  | SEP.  | OCT.  | NOV.  | DEC. |
|---------|------|------|-------|------|------|-------|-------|-------|-------|-------|-------|------|
| 97.0    | 40.0 | 0.0  | 0.0   | 0.0  | 0.0  | 3.0   | 9.1   | 125.8 | 202.5 | 220.1 | 40.6  | -    |
| 97.0    | 50.0 | 0.0  | 0.0   | 3.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 3.0   | 0.0   | -    |
| 97.0    | 60.0 | 0.0  | 0.0   | 0.0  | 0.0  | 1.4   | 0.0   | -     | -     | -     | -     | -    |
| 100.0   | 29.0 | -    | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 23.7  | 7.8   | 1.3   | -    |
| 100.0   | 30.0 | 2.3  | 2.8   | 0.0  | 0.0  | 0.0   | 0.0   | 2.7   | 42.4  | 14.0  | 2.2   | -    |
| 100.0   | 35.0 | -    | -     | -    | -    | 2.9   | 0.0   | -     | -     | -     | -     | -    |
| 100.0   | 40.0 | 10.8 | 0.0   | 0.0  | 0.0  | 5.4   | 3.3   | 0.0   | 3.0   | 4.3   | 14.5  | -    |
| 100.0   | 45.0 | -    | -     | -    | 9.4  | 0.0   | 5.5   | -     | -     | -     | -     | -    |
| 100.0   | 50.0 | 0.0  | 0.0   | 9.8  | 2.3  | 3.2   | 0.0   | 0.0   | 0.0   | 75.6  | 8.3   | -    |
| 100.0   | 55.0 | -    | -     | -    | 3.5  | 0.0   | 0.0   | -     | -     | -     | -     | -    |
| 100.0   | 60.0 | 2.4  | 0.0   | 0.0  | 3.0  | 3.0   | 0.0   | 0.0   | 0.0   | 11.8  | 12.8  | -    |
| 100.0   | 70.0 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 9.8   | 0.0   | -    |
| 100.0   | 80.0 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 3.2   | 0.0   | 0.0   | -    |
| 103.0   | 30.0 | -    | -     | 1.9  | 0.0  | 2.4   | -     | 12.3  | 57.7  | 15.0  | 2.4   | -    |
| 103.0   | 35.0 | -    | -     | 3.3  | 2.8  | 0.0   | -     | 8.9   | 17.2  | 39.6  | 0.0   | -    |
| 103.0   | 40.0 | -    | -     | 0.0  | 5.3  | 0.0   | -     | 0.0   | 14.3  | 22.9  | 0.0   | -    |
| 103.0   | 50.0 | -    | -     | 5.9  | 0.0  | 0.0   | -     | -     | -     | -     | -     | -    |
| 103.0   | 60.0 | -    | -     | 0.0  | 0.0  | 5.6   | -     | -     | -     | -     | -     | -    |
| 105.0   | 32.0 | 2.8  | 0.0   | -    | -    | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 40.0 | 0.0  | 7.4   | -    | -    | -     | 0.0   | -     | -     | -     | -     | -    |
| 105.0   | 50.0 | 0.0  | 10.6  | -    | -    | -     | 0.0   | -     | -     | -     | -     | -    |
| 107.0   | 32.0 | -    | -     | 0.0  | 8.5  | 0.0   | -     | 35.5  | 72.5  | 2.0   | 31.6  | -    |
| 107.0   | 35.0 | -    | -     | 0.0  | 4.3  | 0.0   | -     | 0.0   | 7.2   | 0.0   | 159.1 | -    |
| 107.0   | 40.0 | -    | -     | 0.0  | 2.5  | 0.0   | -     | 0.0   | 0.0   | -     | -     | -    |
| 110.0   | 33.0 | 4.1  | -     | 0.0  | 0.0  | 0.0   | 0.0   | 6.8   | 3.1   | 4.1   | 58.6  | -    |
| 110.0   | 35.0 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 1.7   | 22.4  | -    |
| 110.0   | 40.0 | 0.0  | 0.0   | 0.0  | 19.6 | 0.0   | 0.0   | 0.0   | 0.0   | 2.2   | 3.1   | -    |
| 110.0   | 45.0 | -    | -     | 3.3  | 4.9  | 2.6   | -     | -     | -     | -     | -     | -    |
| 110.0   | 50.0 | 0.0  | 0.0   | 0.0  | 0.0  | 21.7  | 2.5   | 0.0   | 0.0   | 2.8   | 0.0   | -    |
| 110.0   | 60.0 | -    | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 7.2   | 0.0   | 0.0   | 0.0   | -    |
| 113.0   | 30.0 | 23.2 | 2.7   | 0.0  | 0.0  | 7.9   | 73.9  | 44.0  | 139.8 | 61.6  | 28.9  | -    |
| 113.0   | 35.0 | 0.0  | 31.9  | 0.0  | 0.0  | 0.0   | 8.4   | 2.6   | -     | -     | 45.6  | -    |
| 113.0   | 40.0 | 0.0  | 0.0   | 2.8  | 0.0  | 0.0   | 0.0   | 0.0   | 29.4  | 635.0 | 11.2  | -    |
| 113.0   | 50.0 | 0.0  | 0.0   | 0.0  | 0.0  | 7.9   | 5.2   | -     | -     | -     | -     | -    |
| 113.0   | 55.0 | -    | -     | 10.1 | 0.0  | 13.0  | 2.5   | -     | -     | -     | -     | -    |
| 113.0   | 60.0 | 0.0  | 11.0  | 0.0  | 0.0  | 0.0   | 18.6  | -     | -     | -     | -     | -    |
| 115.0   | 26.0 | -    | -     | 0.0  | -    | -     | -     | 588.6 | -     | -     | -     | -    |
| 115.0   | 27.0 | -    | -     | -    | -    | -     | -     | 54.6  | -     | -     | -     | -    |
| 115.0   | 30.0 | -    | -     | -    | -    | -     | -     | 18.4  | -     | -     | -     | -    |
| 115.0   | 35.0 | 4.7  | 13.5  | 8.3  | 4.5  | 130.9 | 49.3  | 467.8 | 210.0 | 88.6  | 65.8  | -    |
| 117.0   | 26.0 | 21.8 | 15.5  | 8.3  | 21.4 | 14.4  | 59.2  | 167.8 | 642.6 | 384.9 | 57.7  | -    |
| 117.0   | 30.0 | 48.5 | 114.1 | 3.0  | 0.0  | 26.0  | 155.1 | 58.5  | -     | -     | 63.3  | -    |
| 117.0   | 35.0 | 9.6  | 24.9  | 0.0  | 0.0  | 26.6  | 40.7  | 66.4  | 16.5  | 14.8  | 161.9 | -    |
| 117.0   | 40.0 | -    | 0.0   | 0.0  | 0.0  | 44.5  | 7.4   | -     | -     | -     | -     | -    |
| 117.0   | 45.0 | 44.3 | 1.5   | 0.0  | 0.0  | 16.5  | 8.9   | -     | -     | -     | -     | -    |
| 117.0   | 50.0 | -    | -     | -    | -    | -     | -     | -     | -     | -     | -     | -    |

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

| STATION | JAN. | FEB. | MAR.  | APR.  | MAY  | JUNE   | JULY   | AUG.  | SEP.  | OCT. | NOV. | DEC. |
|---------|------|------|-------|-------|------|--------|--------|-------|-------|------|------|------|
| 117.0   | 55.0 | -    | 3.2   | 0.0   | 0.0  | 23.0   | 0.0    | -     | -     | -    | -    | -    |
| 117.0   | 60.0 | 2.8  | 2.7   | 4.6   | 0.0  | 0.0    | 10.0   | -     | -     | -    | -    | -    |
| 117.0   | 65.0 | -    | -     | 6.8   | 0.0  | 0.0    | -      | -     | -     | -    | -    | -    |
| 117.0   | 70.0 | 5.7  | -     | 4.5   | 0.0  | 0.0    | 32.4   | -     | -     | -    | -    | -    |
| 118.0   | 33.0 | -    | -     | -     | -    | -      | -      | 16.4  | -     | -    | -    | -    |
| 118.0   | 35.0 | -    | -     | -     | -    | -      | -      | 172.8 | -     | -    | -    | -    |
| 118.5   | 25.0 | -    | -     | -     | -    | -      | -      | 384.1 | -     | -    | -    | -    |
| 118.5   | 30.0 | -    | -     | -     | -    | -      | -      | 230.6 | -     | -    | -    | -    |
| 118.5   | 35.0 | -    | -     | -     | -    | -      | -      | 117.8 | -     | -    | -    | -    |
| 119.0   | 33.0 | -    | -     | -     | -    | -      | -      | 788.4 | -     | -    | -    | -    |
| 119.0   | 42.0 | -    | -     | -     | -    | -      | -      | 158.8 | -     | -    | -    | -    |
| 120.0   | 25.0 | 1.5  | 2.5   | 9.4   | 28.9 | 580.6  | 269.0  | 490.5 | 1.3   | 16.5 | 0.0  | -    |
| 120.0   | 30.0 | 10.7 | 270.3 | 105.2 | 66.6 | 2242.2 | 1898.9 | 257.5 | 2.0   | 0.0  | 5.4  | -    |
| 120.0   | 35.0 | 50.4 | 240.7 | 13.3  | 27.2 | 1839.9 | 147.9  | 22.9  | 6.6   | 18.7 | 14.3 | -    |
| 120.0   | 37.0 | -    | -     | -     | -    | -      | 44.9   | -     | -     | -    | -    | -    |
| 120.0   | 40.0 | -    | 4.6   | -     | 10.5 | 476.3  | -      | -     | -     | -    | -    | -    |
| 120.0   | 43.0 | -    | -     | 2.9   | -    | -      | -      | 5.1   | -     | -    | -    | -    |
| 120.0   | 45.0 | 20.5 | 34.8  | 2.9   | 0.0  | 45.8   | 62.4   | 29.7  | 0.0   | 0.0  | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 0.0   | 24.4  | 3.1  | 0.0    | 3.2    | 14.8  | 25.3  | 10.2 | 7.5  | -    |
| 120.0   | 55.0 | -    | 5.8   | 0.0   | 0.0  | 18.7   | 0.0    | -     | -     | -    | -    | -    |
| 120.0   | 60.0 | 0.0  | 0.0   | 0.0   | 0.0  | 0.0    | 0.0    | 13.2  | 31.2  | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 0.0   | 0.0   | 0.0  | 3.3    | -      | -     | -     | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 4.1   | 0.0   | 0.0  | 0.0    | 0.0    | 3.5   | 3.7   | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -    | -     | -     | -    | -      | -      | 175.8 | -     | -    | -    | -    |
| 121.0   | 34.0 | -    | -     | -     | -    | -      | -      | 4.0   | -     | -    | -    | -    |
| 121.0   | 41.0 | -    | -     | -     | -    | -      | -      | 12.9  | -     | -    | -    | -    |
| 123.0   | 37.0 | 19.4 | 7.8   | 5.2   | 0.0  | 48.6   | 30.2   | 0.0   | 382.2 | 0.0  | 6.3  | -    |
| 123.0   | 40.0 | 40.9 | 37.7  | 0.0   | 21.9 | 230.3  | 0.0    | 0.0   | 39.8  | 2.2  | 7.6  | -    |
| 123.0   | 45.0 | -    | 9.1   | 0.0   | 0.0  | 3.0    | 4.9    | 9.8   | -     | -    | -    | -    |
| 123.0   | 50.0 | 0.0  | 3.7   | 8.5   | 3.0  | 0.0    | 15.4   | 12.0  | 0.0   | 4.8  | 0.0  | -    |
| 123.0   | 55.0 | -    | 0.0   | 6.0   | 0.0  | 0.0    | -      | -     | -     | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0   | 0.0   | 0.0  | 0.0    | 0.0    | -     | -     | -    | -    | -    |
| 127.0   | 34.0 | 3.0  | 6.2   | 7.3   | 0.0  | 7.8    | 0.0    | 4.5   | 436.9 | 4.6  | 1.3  | -    |
| 127.0   | 40.0 | 0.0  | 21.1  | 28.2  | 0.0  | 9.6    | 9.8    | 11.4  | 32.1  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 44.2  | 33.2  | 60.7 | 0.0    | 23.0   | -     | -     | -    | -    | -    |
| 127.0   | 50.0 | 3.0  | 6.1   | 0.0   | 3.2  | 0.0    | 3.3    | 3.0   | 0.0   | 0.0  | 0.0  | -    |
| 127.0   | 55.0 | -    | 3.0   | 5.8   | 0.0  | 0.0    | -      | -     | -     | -    | -    | -    |
| 130.0   | 30.0 | 1.6  | 0.8   | 2.7   | 0.0  | 1.8    | 0.0    | 0.0   | 42.3  | 7.5  | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 11.8  | 2.7   | 0.0  | 0.0    | 0.0    | 0.0   | 2.8   | 4.7  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 145.0 | 0.0   | 0.0  | 42.1   | 0.0    | 0.0   | 0.0   | 6.4  | 0.0  | -    |
| 130.0   | 45.0 | -    | 5.5   | 12.8  | 0.0  | 0.0    | 0.0    | -     | -     | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 26.7  | 27.6  | 0.0  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0  | -    |
| 130.0   | 52.0 | -    | 10.4  | -     | -    | -      | -      | -     | -     | -    | -    | -    |
| 130.0   | 55.0 | -    | 23.5  | 0.0   | 0.0  | 0.0    | -      | -     | -     | -    | -    | -    |
| 130.0   | 60.0 | 0.0  | 5.8   | 8.7   | 0.0  | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 6.1  | -    |
| 133.0   | 25.0 | 1.8  | 4.3   | 19.2  | 0.0  | 0.0    | -      | 0.0   | 0.0   | 7.9  | 0.0  | -    |

TABLE 4. (cont.)

*Citharichthys* spp. (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0 30.0 | 0.0  | 0.0  | 10.6 | 17.0 | 0.0 | 0.0  | 11.7 | 12.6 | 25.5 | 3.7  | 0.0  | -    |
| 133.0 35.0 | -    | -    | 0.0  | 14.7 | 2.6 | 0.0  | 4.6  | -    | -    | -    | -    | -    |
| 133.0 40.0 | 0.0  | 5.7  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0 45.0 | -    | -    | 0.0  | 8.4  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0 50.0 | 3.2  | -    | 0.0  | 0.0  | 0.0 | -    | 0.0  | -    | -    | -    | -    | -    |
| 137.0 23.0 | 0.0  | 2.6  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 7.6  | 13.5 | 0.0  | 0.0  | -    |
| 137.0 30.0 | 2.3  | 11.0 | 4.0  | 0.0  | 0.0 | 3.7  | 4.1  | 0.0  | 0.0  | 0.0  | 10.1 | -    |
| 137.0 35.0 | -    | -    | -    | 18.4 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 40.0 | 0.0  | 0.0  | 57.0 | 41.1 | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 45.0 | -    | -    | 0.0  | 17.3 | 0.0 | 2.8  | 0.0  | -    | -    | -    | -    | -    |
| 137.0 50.0 | 2.9  | 0.0  | -    | 3.0  | 0.0 | 0.0  | 2.5  | 0.0  | -    | -    | -    | -    |
| 147.0 30.0 | -    | 2.3  | -    | -    | -   | -    | -    | -    | -    | -    | -    | -    |

*Hippoglossina stomata*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 110.0 33.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 115.0 26.0 | -    | -    | -    | -    | -   | -    | -    | 2.1  | -    | -    | -    | -    |
| 117.0 26.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.5  | 9.5  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 117.0 35.0 | -    | 0.0  | 0.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 2.3  | -    |
| 118.5 35.0 | -    | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 119.0 42.0 | -    | -    | -    | -    | -   | -    | -    | 2.0  | -    | -    | -    | -    |
| 120.0 25.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 8.4  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 37.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 15.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 19.6 | 0.0  | 0.0  | -    |
| 127.0 34.0 | 0.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 30.6 | 0.0  | 0.0  | -    |
| 130.0 30.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 13.8 | 4.6  | 0.0  | -    |
| 130.0 35.0 | 4.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 5.0  | 0.0  | 1.6  | -    |
| 133.0 25.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 133.0 30.0 | 3.7  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 137.0 23.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 14.7 | 0.0  | -    |
|            |      |      |      |      |     |      |      |      |      | 3.4  | 0.0  | -    |

*Paralichthys californicus*

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0 37.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 100.0 29.0 | 2.5  | -    | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 103.0 30.0 | -    | -    | -    | 3.7  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0 32.0 | -    | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0 33.0 | 0.0  | 0.0  | -    | 0.0  | 0.0 | 7.7  | 0.0  | 0.0  | 5.6  | 0.0  | 0.0  | -    |
| 113.0 30.0 | -    | 0.0  | 0.0  | 0.0  | 0.0 | 27.7 | 3.4  | 0.0  | 4.8  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Paralichthys californicus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 113.0   | 35.0 | 3.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | -    | -   | -    | -    | 74.9 | -    | -    | -    | -    |
| 117.0   | 26.0 | 1.5  | 2.1  | 0.0  | 0.0 | 1.9  | 7.0  | 7.7  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 10.1 | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | -    | -    | 0.0  | -    |
| 118.5   | 25.0 | -    | -    | -    | -   | -    | -    | 2.2  | -    | -    | -    | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 9.1  | -    | -    | -    | -    |
| 120.0   | 25.0 | 1.5  | 0.0  | 0.0  | 3.9 | 4.1  | 4.6  | 5.1  | 1.3  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 1.3  | 0.0  | 0.0 | 43.7 | 0.0  | 4.4  | 11.8 | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 2.1  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.6  | 2.2  | 0.0  | 0.0  | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 2.5  | -    | -    | -    | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 4.0  | -    | -    | -    | -    |
| 121.0   | 34.0 | -    | -    | -    | -   | -    | -    | 4.0  | -    | -    | -    | -    |
| 121.3   | 26.0 | -    | -    | -    | -   | -    | -    | 4.1  | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.8  | 0.0  | 0.0 | 12.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 6.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 6.9  | 0.0  | 0.0  | -    |
| 133.0   | 25.0 | 0.0  | 0.0  | 4.8  | 6.9 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 23.0 | 5.1  | 0.0  | 0.0  | 0.0 | 0.0  | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 137.0   | 35.0 | -    | -    | 0.0  | 0.0 | 0.0  | 2.2  | -    | -    | -    | -    | -    |

*Syacium ovale*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 133.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 2.6  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | -    |

*Xystreureys liolepis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 90.0    | 28.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 8.1  | 2.8  | 4.8  | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | -    |
| 119.0   | 33.0 | -    | -    | -    | -   | -    | -    | 26.3 | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.3  | 1.3  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 29.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 4.0  | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.2  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Eopsetta jordani*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 50.0    | 50.0 | -    | -    | -    | -   | 8.4  | 0.0  | -    | -    | -    | -    | -    |

*Glyptocephalus zachirus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 50.0    | 50.0 | -    | -    | -    | -   | 16.7 | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 51.0 | -    | -    | -    | -   | 0.0  | 1.5  | -    | -    | -    | -    | -    |
| 57.0    | 55.0 | -    | -    | -    | -   | 2.2  | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 65.0 | -    | -    | -    | -   | 8.0  | 0.0  | -    | -    | -    | -    | -    |
| 60.0    | 55.0 | -    | -    | 0.0  | -   | 3.9  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 60.0 | -    | -    | 0.0  | -   | 0.0  | 7.3  | -    | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 55.0 | -    | -    | 0.0  | 0.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 67.0    | 55.0 | -    | -    | 0.0  | 6.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 55.0 | -    | -    | 0.0  | 5.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 70.0    | 60.0 | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 4.8  | 0.0  | 0.0  | -    |
| 70.0    | 65.0 | -    | -    | -    | 5.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 50.0 | -    | -    | 0.0  | 0.0 | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0 | -    | -    | 0.0  | 5.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 55.0 | -    | -    | 0.0  | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 60.0 | -    | -    | -    | 0.0 | 24.4 | 0.0  | -    | -    | -    | -    | -    |
| 80.0    | 51.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0 | -    | -    | -    | 2.9 | -    | -    | -    | -    | -    | -    | -    |
| 83.0    | 55.0 | -    | -    | 0.0  | 0.0 | 5.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -    | -    | 4.3  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 80.0 | -    | -    | 0.0  | 0.0 | 2.1  | -    | -    | -    | -    | -    | -    |
| 87.0    | 35.0 | -    | -    | 0.0  | 3.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0 | -    | -    | -    | 6.1 | -    | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -    | -    | 0.0  | 0.0 | 11.2 | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0 | -    | -    | 0.0  | 0.0 | 2.9  | -    | -    | -    | -    | -    | -    |
| 90.0    | 45.0 | 0.0  | 0.0  | 0.0  | 0.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Lyopsetta exilis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 50.0    | 50.0 | -    | -    | -    | -    | 16.7 | 0.0  | -    | -    | -    | -    | -    |
| 57.0    | 55.0 | -    | -    | -    | -    | 0.0  | 4.4  | -    | -    | -    | -    | -    |
| 57.0    | 65.0 | -    | -    | -    | -    | 8.0  | 6.0  | -    | -    | -    | -    | -    |
| 63.0    | 52.0 | -    | -    | 0.0  | 2.1  | 0.0  | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 55.0 | -    | -    | 0.0  | 0.0  | 8.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 63.0    | 65.0 | -    | -    | -    | 8.9  | 19.8 | 0.0  | -    | -    | -    | -    | -    |
| 67.0    | 55.0 | -    | -    | 15.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 67.0    | 60.0 | -    | -    | -    | -    | 0.0  | 3.2  | -    | -    | -    | -    | -    |
| 70.0    | 55.0 | -    | -    | 16.4 | 22.6 | 8.2  | -    | -    | -    | -    | -    | -    |
| 70.0    | 60.0 | -    | -    | 5.7  | 48.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Lyopsetta exilis* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|
| 70.0    | 65.0 | -    | -    | -    | 11.4 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 50.0 | -    | -    | 1.2  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 73.0    | 55.0 | -    | -    | -    | 0.0  | 8.8  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 50.0 | -    | -    | 1.5  | 5.4  | 2.1  | 2.7  | 0.0  | 0.0  | -    | -    | -    |
| 77.0    | 55.0 | -    | -    | 4.8  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 77.0    | 60.0 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 77.0    | 65.0 | -    | -    | -    | 0.0  | -    | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0 | 0.0  | 0.0  | 0.0  | 2.8  | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0 | 0.0  | 0.0  | 0.0  | 2.4  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 70.0 | 0.0  | 0.0  | 0.0  | 0.0  | 17.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 55.0 | -    | -    | 0.0  | 3.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0 | -    | -    | 0.0  | 25.8 | 0.0  | -    | -    | -    | -    | -    | -    |
| 83.0    | 70.0 | -    | -    | 4.3  | 0.0  | 2.9  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0 | 0.0  | 35.2 | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 35.0 | -    | -    | 3.8  | 0.0  | 2.4  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0 | -    | -    | 2.3  | 0.0  | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0 | -    | -    | 0.0  | 1.6  | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 30.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 7.2  | 0.0  | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0 | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 5.7  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | 0.0  | 3.0  | 0.0  | 3.5  | 0.0  | 0.0  | 2.3  | 0.0  | 3.9  | 0.0  | -    |
| 100.0   | 30.0 | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0 | 0.0  | 0.0  | 3.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 35.0 | -    | -    | 0.0  | 2.8  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 32.0 | -    | -    | 3.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 50.0 | -    | -    | 9.6  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 33.0 | 0.0  | -    | 0.0  | 3.4  | 0.0  | -    | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 30.0 | 0.0  | 0.0  | 12.4 | 0.0  | 0.0  | 0.0  | 0.0  | 9.6  | 0.0  | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | 0.0  | -    | -    | -    | 2.1  | -    | -    | -    | -    |
| 115.0   | 30.0 | -    | -    | -    | -    | -    | -    | 5.0  | -    | -    | -    | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0  | 11.2 | 0.0  | 4.1  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 14.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |



TABLE 4. (cont.)

*Microstomus pacificus*

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 40.0    | 80.0  | -    | -    | -    | -   | -    | 6.4  | -    | -    | -    | -    | -    |
| 57.0    | 65.0  | -    | -    | -    | -   | 8.0  | 0.0  | -    | -    | -    | -    | -    |
| 60.0    | 100.0 | -    | -    | -    | 0.0 | 6.4  | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 67.0    | 65.0  | -    | -    | -    | -   | 0.0  | 0.0  | 0.0  | 34.8 | 0.0  | 0.0  | -    |
| 70.0    | 60.0  | -    | -    | 5.7  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 65.0  | -    | -    | -    | 5.7 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 70.0    | 80.0  | -    | -    | 0.0  | 0.0 | 6.4  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0  | -    | -    | 0.0  | 2.8 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 77.0    | 55.0  | -    | -    | 0.0  | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0  | 0.0  | 0.0  | 5.3  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 60.0  | 0.0  | 8.4  | 8.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 80.0  | 0.0  | 0.0  | 0.0  | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 85.0  | -    | -    | -    | 5.7 | -    | -    | -    | -    | -    | -    | -    |
| 80.0    | 90.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 75.0  | -    | -    | -    | 2.9 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 65.0  | -    | -    | -    | 6.1 | 0.0  | -    | -    | -    | -    | -    | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 55.0  | -    | -    | -    | 0.0 | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 35.0  | -    | -    | -    | 3.7 | -    | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 80.0  | -    | -    | 0.0  | 0.0 | 0.0  | 2.3  | -    | -    | -    | -    | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0 | 3.3  | 0.0  | -    | -    | -    | -    | -    |
| 103.0   | 50.0  | -    | -    | 3.0  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 103.0   | 60.0  | -    | -    | 0.0  | 0.0 | 2.8  | -    | -    | -    | -    | -    | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | -    |
| 113.0   | 55.0  | -    | -    | 0.0  | 3.1 | 0.0  | 0.0  | -    | -    | -    | -    | -    |

*Parophrys vetulus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 80.0    | 51.0 | 0.0  | 0.0  | 0.0  | 9.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 35.0 | -    | -    | 0.0  | 0.0 | 1.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 40.0 | -    | -    | 2.3  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 30.0 | 0.0  | 0.0  | 0.0  | 2.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.4  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 7.4  | 0.0  | 0.0 | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | -    | 1.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | -    | 10.4 | 14.1 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 30.0 | 2.3  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0 | -    | -    | 3.7  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 40.0 | -    | -    | 3.2  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 33.0 | 1.4  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Parophrys vetulus* (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 113.0   | 30.0 | -    | 0.0  | 2.9  | 1.6 | 19.8 | 6.7  | 9.4  | 0.0  | 0.0  | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | -    | -   | -    | -    | 2.1  | -    | -    | -    | -    |
| 117.0   | 26.0 | -    | 0.0  | 0.0  | 0.0 | 1.9  | 10.6 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 118.0   | 35.0 | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 118.5   | 25.0 | -    | -    | -    | -   | -    | -    | 2.2  | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Pleuronichthys* spp.

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 70.0    | 65.0 | -    | -    | -    | 0.0 | 5.6  | 0.0  | -    | -    | -    | -    | -    |
| 80.0    | 51.0 | 0.0  | 0.0  | 0.0  | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 87.0    | 50.0 | -    | -    | 0.0  | 1.6 | 0.0  | -    | -    | -    | -    | -    | -    |
| 87.0    | 70.0 | -    | -    | 0.0  | 0.0 | 11.2 | -    | -    | -    | -    | -    | -    |
| 90.0    | 41.0 | -    | -    | -    | -   | 6.1  | -    | -    | -    | -    | -    | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 26.0 | 0.0  | 2.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0 | -    | 2.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | 0.0  | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 5.2  | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 6.3  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 55.0 | 0.0  | 0.0  | 0.0  | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 3.0  | -    | -    | -    | -    |
| 130.0   | 30.0 | 3.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Pleuronichthys coenosus*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 63.0    | 55.0 | -    | -    | 0.0  | 0.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 55.0 | -    | -    | -    | -   | -    | 6.4  | -    | -    | -    | -    | -    |
| 93.0    | 30.0 | 0.0  | 0.0  | 3.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 35.0 | -    | -    | -    | 3.3 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 40.0 | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |

*Pleuronichthys decurrens*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 85.0    | 50.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 53.0 | 0.0  | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 40.0 | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 50.0 | 0.0  | 2.7  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

TABLE 4. (cont.)

*Pleuronichthys ritteri*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 113.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.6  | 0.0  | 0.0  | -    |
| 119.0   | 42.0 | -    | -    | -    | -   | -    | -    | 3.9  | -    | -    | -    | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 2.5  | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 19.6 | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 9.2  | 0.0  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |

*Pleuronichthys verticalis*

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 85.0    | 38.0 | 0.0  | 3.2  | -    | -   | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 1.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 30.0 | 0.0  | 0.0  | -    | 0.0 | 0.0  | 0.0  | 3.4  | 0.0  | -    | 0.0  | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 29.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | -    |
| 107.0   | 32.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 5.6  | 0.0  | 0.0  | -    |
| 107.0   | 35.0 | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 3.1  | -    |
| 110.0   | 33.0 | 1.2  | -    | 0.0  | 0.0 | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 113.0   | 30.0 | -    | 0.0  | 0.0  | 0.0 | 15.8 | 20.2 | 9.4  | 9.6  | 6.7  | 2.2  | -    |
| 113.0   | 40.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 35.4 | 0.0  | 3.4  | 0.0  | -    |
| 115.0   | 26.0 | -    | -    | -    | -   | -    | -    | 3.6  | 5.6  | 3.2  | 0.0  | -    |
| 117.0   | 26.0 | 0.0  | 0.0  | 0.0  | 0.0 | 11.2 | 10.6 | 3.6  | 12.6 | 4.3  | 7.5  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 7.4  | 3.6  | -    | -    | -    | -    |
| 118.5   | 25.0 | -    | -    | -    | -   | -    | -    | 4.4  | -    | -    | -    | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 10.5 | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 4.1  | 9.1  | 1.3  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 58.2 | 12.9 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 8.4  | 8.0  | 0.0  | 0.0  | 0.0  | 2.0  | -    |
| 120.0   | 40.0 | -    | 0.0  | 1.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 5.1  | -    | -    | -    | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | -    |

*Symphurus* spp.

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 85.0    | 40.0 | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | -    |
| 93.0    | 27.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | -    |
| 97.0    | 32.0 | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | -    |
| 97.0    | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 110.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.7  | 0.0  | -    |
| 110.0   | 60.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | -    |

TABLE 4. (cont.)

*Symphurus* spp. (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG.  | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|-------|------|------|------|------|
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.8  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 7.6  | 6.5  | 0.0  | -    |
| 117.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 4.2  | 0.0  | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 41.9  | -    | -    | -    | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 45.3  | -    | -    | -    | -    |
| 119.0   | 33.0 | -    | -    | -    | -   | -    | -    | 96.4  | -    | -    | -    | -    |
| 119.0   | 42.0 | -    | -    | -    | -   | -    | -    | 2.0   | -    | -    | -    | -    |
| 120.0   | 25.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 1.3   | 1.3  | 0.0  | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 17.7  | 17.7 | 12.0 | 5.4  | -    |
| 120.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 38.9  | 2.2  | 14.0 | 4.1  | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 2.5   | -    | -    | -    | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 2.5  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 18.1  | -    | -    | -    | -    |
| 121.0   | 34.0 | -    | -    | -    | -   | -    | -    | 14.1  | -    | -    | -    | -    |
| 121.3   | 26.0 | -    | -    | -    | -   | -    | -    | 4.1   | -    | -    | -    | -    |
| 121.5   | 28.0 | -    | -    | -    | -   | -    | -    | 4.6   | -    | -    | 1.3  | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 4.4  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 6.0   | 0.0  | 0.0  | 0.0  | -    |
| 127.0   | 34.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2   | 82.6 | 0.0  | 0.0  | -    |
| 127.0   | 50.0 | -    | -    | -    | -   | -    | -    | 0.0   | 0.0  | 2.5  | 0.0  | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 29.9 | 25.0 | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 11.0 | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 6.4  | 0.0  | -    |
| 133.0   | 25.0 | 1.8  | 0.0  | 0.0  | 0.0 | 0.0  | -    | 112.2 | 0.0  | 0.0  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 25.5 | 7.4  | 0.0  | -    |
| 137.0   | 23.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 45.6  | 0.0  | 1.7  | 0.0  | -    |
| 137.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 3.1  | 0.0  | 6.7  | -    |

## Disintegrated fish larva

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 50.0    | 50.0 | -    | -    | -    | -   | 8.4  | 0.0  | -    | -    | -    | -    | -    |
| 60.0    | 60.0 | -    | -    | 0.0  | -   | 0.0  | 0.0  | -    | 0.0  | 0.0  | 3.0  | -    |
| 60.0    | 80.0 | -    | -    | 0.0  | 2.8 | -    | -    | -    | 0.0  | 0.0  | 0.0  | -    |
| 60.0    | 90.0 | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | -    | 0.0  | 2.4  | 0.0  | -    |
| 63.0    | 55.0 | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 10.7 | -    |
| 63.0    | 65.0 | -    | -    | -    | 0.0 | 0.0  | 5.3  | -    | -    | -    | -    | -    |
| 70.0    | 51.0 | -    | -    | -    | -   | -    | 6.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 70.0    | 70.0 | -    | -    | 0.0  | 0.0 | 6.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 70.0    | 90.0 | -    | -    | 2.1  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 73.0    | 60.0 | -    | -    | 0.0  | 0.0 | -    | 5.1  | 0.0  | 0.0  | 0.0  | -    | -    |
| 77.0    | 50.0 | -    | -    | 0.0  | 5.4 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 80.0    | 51.0 | 1.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 80.0    | 55.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.7  | -    |

TABLE 4. (cont.)

## Disintegrated fish larva (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY  | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 80.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 2.7  | -    |
| 80.0    | 90.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 43.0  | -    | -    | 0.0  | 0.0  | 4.8  | -    | -    | -    | -    | -    | -    |
| 83.0    | 60.0  | -    | -    | 0.0  | 5.2  | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 85.0    | 40.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | -    |
| 85.0    | 45.0  | -    | -    | -    | -    | -    | 2.9  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 85.0    | 50.0  | 0.0  | 0.0  | -    | -    | -    | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 5.3  | 0.0  | -    | -    | 10.9 | 0.0  | 0.0  | -    | -    | -    | -    |
| 87.0    | 55.0  | -    | -    | -    | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 9.5  | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 6.1  | 0.0  | 2.6  | 0.0  | 0.0  | -    |
| 90.0    | 30.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | -    | 0.0  | -    | 0.0  | -    | -    |
| 90.0    | 31.0  | -    | -    | -    | -    | 6.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 37.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 41.0  | -    | -    | -    | 0.0  | 3.1  | -    | -    | -    | -    | -    | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 2.5  | 0.0  | 18.0 | -    | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 75.0  | -    | -    | -    | 3.0  | -    | -    | -    | -    | -    | -    | -    |
| 90.0    | 80.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 10.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 100.0 | -    | -    | 11.7 | -    | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 27.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 4.5  | 0.0  | -    |
| 93.0    | 35.0  | -    | -    | 0.0  | 6.5  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 50.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 93.0    | 60.0  | 0.0  | 0.0  | 0.0  | 6.5  | 3.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 70.0  | 0.0  | 0.0  | 3.0  | 9.0  | 3.5  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 75.0  | -    | -    | -    | 9.6  | -    | -    | -    | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 7.5  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 93.0    | 90.0  | -    | -    | 6.1  | -    | -    | 5.8  | -    | -    | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 0.0  | 0.0  | -    | 0.0  | 0.0  | 0.0  | 4.1  | 0.0  | 2.4  | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 22.1 | 0.0  | 0.0  | 11.4 | 0.0  | 0.0  | 2.4  | -    |
| 97.0    | 45.0  | -    | -    | -    | 0.0  | 8.8  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 8.9  | 0.0  | 4.4  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 97.0    | 60.0  | 0.0  | 0.0  | 6.6  | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 70.0  | 0.0  | 0.0  | 8.6  | 3.8  | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 97.0    | 75.0  | -    | -    | -    | 11.6 | -    | -    | -    | -    | -    | -    | -    |
| 100.0   | 29.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 40.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 10.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 45.0  | -    | -    | -    | 0.0  | 0.0  | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | -    | 0.0  | 0.0  | 0.0  | 1.4  | 2.7  | 0.0  | 0.0  | 3.2  | 0.0  | -    |
| 100.0   | 55.0  | -    | -    | -    | 0.0  | 0.0  | 6.6  | -    | -    | -    | -    | -    |
| 100.0   | 60.0  | -    | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.5  | 0.0  | -    |
| 100.0   | 75.0  | -    | -    | -    | 1.9  | -    | -    | -    | -    | -    | -    | -    |

TABLE 4. (cont.)

## Disintegrated fish larva (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG.  | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|-------|------|------|------|------|
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0  | 2.3 | 3.5  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 90.0  | 0.0  | 0.0  | 0.0  | 3.0 | 0.0  | 2.7  | -     | -    | -    | -    | -    |
| 100.0   | 100.0 | -    | -    | 0.0  | -   | 0.0  | 3.0  | -     | -    | -    | -    | -    |
| 103.0   | 30.0  | -    | -    | 5.6  | 0.0 | 0.0  | -    | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 35.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0   | 0.0  | 4.4  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 2.7 | 0.0  | -    | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 60.0  | -    | -    | 0.0  | 0.0 | 2.8  | -    | -     | -    | -    | -    | -    |
| 103.0   | 70.0  | -    | -    | 9.5  | 0.0 | 0.0  | -    | -     | -    | -    | -    | -    |
| 103.0   | 90.0  | -    | -    | 0.0  | 2.8 | 0.0  | -    | -     | -    | -    | -    | -    |
| 105.0   | 40.0  | 0.0  | 0.0  | -    | -   | -    | 0.0  | -     | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 0.0  | 4.3 | 3.5  | -    | 0.0   | 5.6  | 0.0  | 0.0  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0   | 0.0  | 0.0  | 3.1  | -    |
| 107.0   | 50.0  | -    | -    | 3.6  | 0.0 | 3.0  | -    | -     | -    | -    | -    | -    |
| 107.0   | 80.0  | -    | -    | 0.0  | 0.0 | 5.9  | -    | -     | -    | -    | -    | -    |
| 110.0   | 33.0  | 0.0  | -    | 11.9 | 2.0 | 0.0  | 0.0  | 0.0   | 0.0  | 2.1  | 22.2 | -    |
| 110.0   | 35.0  | 0.0  | 0.0  | 6.2  | 3.3 | 0.0  | 0.0  | 0.0   | 0.0  | 6.8  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | 0.0   | 0.0  | 2.8  | 0.0  | -    |
| 110.0   | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 6.0  | 0.0  | -    |
| 110.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | -     | -    | -    | -    | -    |
| 110.0   | 90.0  | 0.0  | -    | 10.4 | 0.0 | 0.0  | 0.0  | -     | -    | -    | -    | -    |
| 113.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 6.7  | 0.0   | 0.0  | 0.0  | 11.1 | -    |
| 113.0   | 35.0  | 0.0  | 0.0  | 0.0  | 3.2 | 0.0  | 0.0  | 0.0   | -    | -    | 0.0  | -    |
| 113.0   | 40.0  | 0.0  | 0.0  | 36.5 | 0.0 | 0.0  | 0.0  | 3.7   | 0.0  | 3.4  | 0.0  | -    |
| 113.0   | 45.0  | 0.0  | -    | 2.9  | 0.0 | 7.1  | 0.0  | -     | -    | -    | -    | -    |
| 113.0   | 55.0  | -    | -    | 0.0  | 0.0 | 6.5  | 0.0  | -     | -    | -    | -    | -    |
| 113.0   | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.3  | 0.0  | -     | -    | -    | -    | -    |
| 113.0   | 65.0  | -    | -    | 1.4  | 0.0 | 0.0  | -    | -     | -    | -    | -    | -    |
| 115.0   | 26.0  | -    | -    | -    | -   | 0.0  | -    | 2.1   | -    | -    | -    | -    |
| 117.0   | 26.0  | 0.0  | 1.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 1.6  | 3.3  | -    |
| 117.0   | 30.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.4   | 0.0  | 0.0  | 0.0  | -    |
| 117.0   | 35.0  | 0.0  | 3.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | -    | -    | 2.3  | -    |
| 117.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.0  | 0.0  | 0.0   | 3.3  | 0.0  | 5.1  | -    |
| 117.0   | 50.0  | 0.0  | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | -     | -    | -    | -    | -    |
| 117.0   | 65.0  | -    | -    | 2.7  | 0.0 | 3.1  | 0.0  | -     | -    | -    | -    | -    |
| 117.0   | 70.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 3.2  | -     | -    | -    | -    | -    |
| 118.5   | 25.0  | -    | -    | -    | -   | -    | -    | 2.2   | -    | -    | -    | -    |
| 118.5   | 30.0  | -    | -    | -    | -   | -    | -    | 5.2   | -    | -    | -    | -    |
| 118.5   | 35.0  | -    | -    | -    | -   | -    | -    | 18.1  | -    | -    | -    | -    |
| 119.0   | 33.0  | -    | -    | -    | -   | -    | -    | 122.6 | -    | -    | -    | -    |
| 119.0   | 42.0  | -    | -    | -    | -   | -    | -    | 13.7  | -    | -    | -    | -    |
| 120.0   | 25.0  | 3.1  | 2.0  | 0.0  | 0.0 | 2.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 30.0  | 0.0  | 2.6  | 0.0  | 0.0 | 0.0  | 0.0  | 6.7   | 7.9  | 0.0  | 0.0  | -    |
| 120.0   | 35.0  | 1.7  | 0.0  | 0.0  | 0.0 | 8.4  | 0.0  | 14.5  | 0.0  | 7.0  | 0.0  | -    |
| 120.0   | 45.0  | 2.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 12.8 | 0.0   | 3.2  | 0.0  | 0.0  | -    |
| 120.0   | 55.0  | -    | 0.0  | 0.0  | 0.0 | 34.3 | 0.0  | -     | -    | -    | -    | -    |

TABLE 4. (cont.)

## Disintegrated fish larva (cont.)

| STATION | JAN. | FEB. | MAR. | APR.  | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|-------|-----|------|------|------|------|------|------|------|
| 120.0   | 60.0 | 0.0  | 2.6  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 65.0 | -    | 0.0  | 0.0   | 0.0 | 3.3  | -    | -    | -    | -    | -    | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 18.1  | 0.0 | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | -    |
| 120.0   | 80.0 | 0.0  | 5.9  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 0.0  | 0.0   | 0.0 | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -     | -   | -    | -    | 45.8 | -    | -    | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.0  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 6.1  | 2.2  | 0.0  | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 123.0   | 55.0 | -    | 8.3  | 0.0   | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 0.0   | 0.0 | 2.9  | 0.0  | -    | -    | -    | -    | -    |
| 127.0   | 34.0 | 4.6  | 22.6 | 53.5  | 0.0 | 0.0  | 0.0  | 0.0  | 51.6 | 0.0  | 0.0  | -    |
| 127.0   | 40.0 | 3.0  | 79.6 | 0.0   | 0.0 | 0.0  | 0.0  | 2.8  | 2.9  | 0.0  | -    | -    |
| 127.0   | 45.0 | -    | 44.2 | 0.0   | 6.7 | 0.0  | 2.9  | -    | -    | 4.9  | 0.0  | -    |
| 127.0   | 50.0 | 0.0  | 0.0  | 3.0   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    | -    |
| 127.0   | 60.0 | 0.0  | 0.0  | 0.0   | 3.2 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 130.0   | 30.0 | 1.7  | 0.0  | 0.0   | 0.0 | 0.0  | 0.0  | 0.0  | 7.5  | 0.0  | 1.6  | -    |
| 130.0   | 35.0 | 0.0  | 0.0  | 0.0   | 6.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 40.0 | 5.9  | 0.0  | 0.0   | 5.4 | 0.0  | 0.0  | 5.7  | 0.0  | 0.0  | 1.6  | -    |
| 130.0   | 45.0 | -    | 0.0  | 35.3  | 2.7 | 0.0  | 17.3 | -    | -    | -    | -    | -    |
| 130.0   | 50.0 | 0.0  | 27.5 | 168.8 | 0.0 | 0.0  | 5.5  | 0.0  | 0.0  | 0.0  | 2.5  | -    |
| 130.0   | 55.0 | -    | 0.0  | 11.6  | 0.0 | 8.7  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 60.0 | 0.0  | 1.5  | 0.0   | 0.0 | 5.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 130.0   | 80.0 | 6.4  | 0.0  | 144.0 | 0.0 | 0.0  | -    | 0.0  | 0.0  | 49.8 | 0.0  | -    |
| 133.0   | 25.0 | 1.8  | 0.0  | 68.2  | 0.0 | 0.0  | 2.9  | 0.0  | 12.8 | 9.2  | 0.0  | -    |
| 133.0   | 30.0 | 0.0  | 0.0  | 2.9   | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 35.0 | -    | 0.0  | 6.0   | 0.0 | 0.0  | 2.1  | -    | -    | -    | -    | -    |
| 133.0   | 40.0 | 0.0  | 0.0  | 8.4   | 0.0 | 3.1  | 0.0  | -    | -    | -    | -    | -    |
| 133.0   | 45.0 | -    | 0.0  | 2.9   | -   | -    | -    | -    | -    | -    | -    | -    |
| 133.0   | 60.0 | 0.0  | 0.0  | 0.0   | 0.0 | 0.0  | 4.1  | 14.8 | 3.1  | 6.2  | 6.7  | -    |
| 137.0   | 30.0 | 0.0  | 0.0  | 7.9   | 2.0 | 0.0  | 4.5  | -    | -    | -    | -    | -    |
| 137.0   | 35.0 | -    | 0.0  | 20.6  | 0.0 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 137.0   | 40.0 | 0.0  | 0.0  | 2.9   | 2.3 | 0.0  | 2.0  | 0.0  | -    | -    | -    | -    |
| 137.0   | 45.0 | -    | 0.0  | 3.0   | 0.0 | 3.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 140.0   | 35.0 | -    | -    | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 147.0   | 25.0 | -    | -    | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 19.0 | -    | -    | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 25.0 | -    | -    | -     | -   | -    | -    | -    | -    | -    | -    | -    |
| 150.0   | 40.0 | -    | -    | -     | -   | -    | -    | -    | -    | -    | -    | -    |

## Unidentified fish larva

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|------|------|------|
| 63.0    | 52.0 | -    | -    | 0.0  | 2.1 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | -    |

TABLE 4. (cont.)

## Unidentified fish larva (cont.)

| STATION | JAN.  | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT. | NOV. | DEC. |
|---------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 63.0    | 55.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | -    |
| 67.0    | 65.0  | -    | -    | -    | -   | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | -    |
| 73.0    | 50.0  | -    | -    | 3.6  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    | -    |
| 80.0    | 70.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 80.0    | 90.0  | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | -    |
| 80.0    | 100.0 | 0.0  | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | -    |
| 83.0    | 55.0  | -    | -    | 2.5  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 85.0    | 38.0  | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | -    |
| 85.0    | 40.0  | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 5.4  | 0.0  | 0.0  | -    |
| 85.0    | 50.0  | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | -    |
| 85.0    | 60.0  | 0.0  | 0.0  | -    | -   | -    | 0.0  | 0.0  | 8.5  | 0.0  | 0.0  | -    |
| 87.0    | 35.0  | -    | -    | 9.5  | 0.0 | 6.8  | -    | -    | -    | -    | -    | -    |
| 87.0    | 50.0  | -    | -    | 0.0  | 0.0 | 1.6  | -    | -    | -    | -    | -    | -    |
| 87.0    | 80.0  | -    | -    | 0.0  | 2.5 | 0.0  | -    | -    | -    | -    | -    | -    |
| 90.0    | 28.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.9  | 0.0  | 0.0  | 2.3  | 11.9 | 2.4  | -    |
| 90.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.0  | 12.3 | 8.5  | 10.2 | 0.0  | 0.0  | -    |
| 90.0    | 37.0  | 0.0  | 0.0  | 0.0  | 0.0 | 5.3  | 0.0  | 0.0  | 0.0  | -    | 0.0  | -    |
| 90.0    | 45.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | -    |
| 90.0    | 60.0  | 0.0  | 0.0  | 0.0  | 0.0 | 2.9  | 8.1  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 70.0  | 0.0  | 2.8  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 90.0    | 80.0  | 0.0  | 0.0  | 0.0  | 2.4 | 0.0  | 0.0  | -    | -    | -    | -    | -    |
| 90.0    | 90.0  | 0.0  | 0.0  | 2.5  | 0.0 | 0.0  | 0.0  | -    | 18.6 | 2.8  | 0.0  | -    |
| 93.0    | 27.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 4.5  | 0.0  | 0.0  | -    |
| 93.0    | 30.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -    | -    | -    |
| 93.0    | 80.0  | -    | -    | 0.0  | 0.0 | 0.0  | 2.8  | -    | -    | -    | -    | -    |
| 97.0    | 32.0  | 0.0  | 0.0  | -    | 0.0 | 0.0  | 0.0  | 0.0  | 3.0  | -    | 0.0  | -    |
| 97.0    | 30.0  | 0.0  | 0.0  | 0.0  | -   | 0.0  | 0.0  | 0.0  | 4.1  | 0.0  | 0.0  | -    |
| 97.0    | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 0.0  | -    |
| 97.0    | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.3  | 0.0  | 8.6  | 0.0  | 0.0  | -    |
| 100.0   | 29.0  | -    | -    | 0.0  | 0.0 | 0.0  | 0.0  | 2.3  | 0.0  | 3.9  | 0.0  | -    |
| 100.0   | 30.0  | -    | -    | 0.0  | 0.0 | 13.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 100.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | -    |
| 100.0   | 70.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  | -    |
| 100.0   | 80.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 30.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 12.4 | 3.7  | 4.8  | -    |
| 103.0   | 35.0  | -    | -    | 3.3  | 0.0 | 1.2  | -    | 3.0  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 40.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 5.5  | 0.0  | 0.0  | 0.0  | -    |
| 103.0   | 60.0  | -    | -    | 3.2  | 0.0 | 0.0  | -    | -    | -    | -    | -    | -    |
| 107.0   | 32.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 16.7 | 39.0 | 1.6  | -    |
| 107.0   | 35.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 5.4  | 0.0  | -    |
| 110.0   | 33.0  | -    | -    | 0.0  | 0.0 | 0.0  | -    | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 110.0   | 40.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | -    |
| 110.0   | 50.0  | 0.0  | 0.0  | 0.0  | 0.0 | 3.6  | 0.0  | 0.0  | 3.4  | 0.0  | 2.6  | -    |
| 110.0   | 60.0  | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | -    |
| 110.0   | 70.0  | 0.0  | 5.4  | 0.0  | 0.0 | 0.0  | 0.0  | -    | 0.0  | 6.0  | 2.9  | -    |
| 110.0   | 80.0  | 3.3  | 0.0  | 0.0  | 0.0 | 0.0  | 2.5  | -    | -    | -    | -    | -    |



TABLE 4. (cont.)

## Unidentified fish larva (cont.)

| STATION | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEP. | OCT.  | NOV. | DEC. |
|---------|------|------|------|------|-----|------|------|------|------|-------|------|------|
| 113.0   | 30.0 | 0.0  | 0.0  | 0.0  | 1.6 | 0.0  | 0.0  | 9.4  | 0.0  | 5.4   | 2.2  | -    |
| 113.0   | 35.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.6  | -    | -     | 0.0  | -    |
| 113.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.3  | 13.4  | 0.0  | -    |
| 113.0   | 50.0 | 0.0  | 3.1  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 113.0   | 70.0 | 0.0  | -    | 1.5  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 115.0   | 30.0 | -    | -    | -    | -   | -    | -    | 5.0  | -    | -     | -    | -    |
| 117.0   | 26.0 | 1.5  | 4.2  | 5.6  | 1.5 | 0.0  | 0.0  | 0.0  | 8.4  | 1.6   | 6.6  | -    |
| 117.0   | 30.0 | 0.0  | 0.0  | 0.0  | 3.6 | 0.0  | 0.0  | 2.4  | 5.1  | 4.3   | 0.0  | -    |
| 117.0   | 35.0 | 0.0  | 14.1 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | -    | -     | 2.3  | -    |
| 117.0   | 40.0 | 16.0 | 0.0  | 0.0  | 2.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 117.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 7.7  | 0.0  | -    | -    | -     | -    | -    |
| 118.0   | 33.0 | -    | -    | -    | -   | -    | -    | 3.3  | -    | -     | -    | -    |
| 118.5   | 25.0 | -    | -    | -    | -   | -    | -    | 8.9  | -    | -     | -    | -    |
| 118.5   | 30.0 | -    | -    | -    | -   | -    | -    | 10.5 | -    | -     | -    | -    |
| 118.5   | 35.0 | -    | -    | -    | -   | -    | -    | 21.1 | -    | -     | -    | -    |
| 119.0   | 42.0 | -    | -    | -    | -   | -    | -    | 5.9  | -    | -     | -    | -    |
| 120.0   | 25.0 | 1.5  | 2.5  | 0.0  | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 9.4   | 0.0  | -    |
| 120.0   | 30.0 | 0.0  | 4.8  | 0.0  | 0.0 | 0.0  | 0.0  | 4.4  | 2.0  | 6.0   | 0.0  | -    |
| 120.0   | 35.0 | 0.0  | 0.7  | 0.0  | 0.0 | 67.5 | 4.8  | 21.7 | 4.4  | 9.4   | 0.0  | -    |
| 120.0   | 37.0 | -    | -    | -    | -   | -    | 7.9  | -    | -    | -     | -    | -    |
| 120.0   | 40.0 | -    | 2.3  | 0.0  | 1.3 | 15.1 | -    | -    | -    | -     | -    | -    |
| 120.0   | 43.0 | -    | -    | -    | -   | -    | -    | 17.7 | -    | -     | -    | -    |
| 120.0   | 45.0 | 0.0  | 1.4  | 1.5  | 0.0 | 6.1  | 0.0  | 3.7  | 3.1  | 0.0   | 0.0  | -    |
| 120.0   | 50.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5   | 0.0  | -    |
| 120.0   | 55.0 | -    | 0.0  | 0.0  | 0.0 | 3.1  | 0.0  | -    | -    | -     | -    | -    |
| 120.0   | 60.0 | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 120.0   | 70.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.1  | -    |
| 120.0   | 80.0 | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 120.0   | 90.0 | 0.0  | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 3.4  | 0.0  | 0.0   | 0.0  | -    |
| 121.0   | 30.0 | -    | -    | -    | -   | -    | -    | 10.0 | -    | -     | -    | -    |
| 121.0   | 34.0 | -    | -    | -    | -   | -    | -    | 8.0  | -    | -     | -    | -    |
| 121.3   | 26.0 | -    | -    | -    | -   | -    | -    | 4.1  | -    | -     | -    | -    |
| 121.5   | 28.0 | -    | -    | -    | -   | -    | -    | 27.5 | -    | -     | -    | -    |
| 123.0   | 37.0 | 0.0  | 0.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 3.3   | 0.0  | -    |
| 123.0   | 40.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.1  | 0.0   | 0.0  | -    |
| 123.0   | 45.0 | -    | 3.0  | 0.0  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 123.0   | 50.0 | 0.0  | 0.0  | 0.0  | 3.0 | 0.0  | 3.1  | 0.0  | 0.0  | 0.0   | 0.0  | -    |
| 123.0   | 55.0 | -    | 2.8  | 0.0  | 2.6 | 0.0  | -    | -    | -    | -     | -    | -    |
| 123.0   | 60.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.1  | -    | -    | -     | -    | -    |
| 127.0   | 34.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 2.2  | 55.0 | 0.0   | 0.0  | -    |
| 127.0   | 40.0 | 3.0  | 0.0  | 12.5 | 3.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | -    | -    |
| 127.0   | 45.0 | -    | 0.0  | 0.0  | 3.4 | 0.0  | 10.0 | -    | -    | -     | -    | -    |
| 127.0   | 50.0 | -    | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 3.0  | 0.0  | 0.0   | 0.0  | -    |
| 127.0   | 60.0 | 0.0  | 1.4  | 2.8  | 0.0 | 0.0  | 0.0  | -    | -    | -     | -    | -    |
| 130.0   | 30.0 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 46.1 | 2.5  | 563.8 | 0.0  | -    |
| 130.0   | 35.0 | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 4.7   | 0.0  | -    |

TABLE 4. (cont.)

## Unidentified fish larva (cont.)

| STATION    | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG.  | SEP.  | OCT.  | NOV. | DEC. |
|------------|------|------|------|------|-----|------|------|-------|-------|-------|------|------|
| 130.0 40.0 | 5.9  | 0.0  | 4.4  | 11.6 | 0.0 | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | -    |
| 130.0 45.0 | -    | -    | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -     | -     | -     | -    | -    |
| 130.0 50.0 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0 | 2.9  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | -    |
| 130.0 52.0 | -    | -    | 2.6  | -    | -   | -    | -    | -     | -     | -     | -    | -    |
| 130.0 55.0 | -    | -    | 0.0  | 2.9  | 0.0 | 0.0  | -    | -     | -     | -     | -    | -    |
| 130.0 60.0 | 0.0  | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.0  | 2.8   | 0.0   | 0.0   | 0.0  | -    |
| 130.0 70.0 | 2.9  | -    | -    | -    | -   | -    | -    | -     | -     | -     | -    | -    |
| 133.0 25.0 | 21.6 | 1.5  | 1.2  | 2.4  | 0.0 | 0.0  | -    | 0.0   | 2.3   | 196.5 | 0.0  | -    |
| 133.0 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 2.9  | 0.0   | 0.0   | 20.2  | 4.0  | -    |
| 133.0 40.0 | 0.0  | 0.0  | 1.3  | 3.0  | 0.0 | 3.0  | 2.1  | -     | -     | -     | -    | -    |
| 133.0 50.0 | 0.0  | -    | 1.4  | 0.0  | 0.0 | -    | 0.0  | -     | -     | -     | -    | -    |
| 137.0 23.0 | 12.6 | 20.6 | 0.0  | 0.0  | 0.0 | 3.2  | 0.0  | 243.2 | 197.7 | 3.4   | 2.1  | -    |
| 137.0 30.0 | 2.3  | 0.0  | 0.0  | 10.9 | 0.0 | 7.4  | 4.1  | 0.0   | 3.1   | 3.1   | 0.0  | -    |
| 137.0 35.0 | -    | -    | -    | 7.9  | 0.0 | 0.0  | 0.0  | -     | -     | -     | -    | -    |
| 137.0 40.0 | 3.3  | 0.0  | 2.8  | 0.0  | 0.0 | 0.0  | 0.0  | -     | -     | -     | -    | -    |
| 137.0 45.0 | -    | -    | 0.0  | 5.8  | 0.0 | 0.0  | 0.0  | 0.0   | -     | -     | -    | -    |
| 137.0 50.0 | 0.0  | 0.0  | -    | 6.0  | 0.0 | 0.0  | 0.0  | 0.0   | -     | -     | -    | -    |
| 140.0 30.0 | -    | 2.5  | -    | -    | -   | -    | -    | -     | -     | -     | -    | -    |
| 147.0 20.0 | -    | 2.7  | -    | -    | -   | -    | -    | -     | -     | -     | -    | -    |
| 147.0 30.0 | -    | 6.9  | -    | -    | -   | -    | -    | -     | -     | -     | -    | -    |
| 150.0 30.0 | -    | 2.5  | -    | -    | -   | -    | -    | -     | -     | -     | -    | -    |

TABLE 5. Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as Table 4.

| Name                             | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|
| <i>Albula vulpes</i>             | 3    | -    | -    | -    | -    | -    | 1    | -    | -    | -    |
| <i>Anguilliformes</i>            | 35   | 26   | 15   | 30   | 4    | 11   | 33   | 36   | 33   | 16   |
| <i>Etrumeus acuminatus</i>       | 25   | 18   | 28   | 28   | 5    | 8    | 27   | 45   | 31   | 29   |
| <i>Opisthonema</i> spp.          | 1    | 4    | -    | 1    | -    | 4    | 3    | 4    | 1    | -    |
| <i>Sardinops sagax</i>           | 167  | 269  | 221  | 375  | 255  | 167  | 174  | 193  | 172  | 142  |
| <i>Engraulidae</i>               | -    | -    | -    | -    | 1    | -    | -    | 2    | 2    | -    |
| <i>Engraulis mordax</i>          | 394  | 524  | 686  | 760  | 569  | 537  | 581  | 785  | 888  | 979  |
| <i>Alepocephalidae</i>           | 2    | -    | -    | -    | 1    | -    | -    | -    | -    | -    |
| <i>Argentina sialis</i>          | 55   | 68   | 89   | 110  | 81   | 77   | 56   | 31   | 30   | 53   |
| <i>Microstoma microstoma</i>     | 21   | 28   | 18   | 39   | 22   | 17   | 16   | 34   | 25   | 23   |
| <i>Nannostoma candida</i>        | 29   | 17   | 18   | 27   | 8    | 13   | 13   | 17   | 13   | 20   |
| <i>Nansenia crassa</i>           | 50   | 63   | 65   | 47   | 61   | 32   | 74   | 49   | 27   | 38   |
| <i>Bathylagus</i> spp.           | -    | -    | -    | 1    | 3    | 1    | 4    | 13   | 7    | 3    |
| <i>Bathylagus milleri</i>        | 1    | -    | -    | 1    | 1    | 2    | -    | 1    | 1    | 1    |
| <i>Bathylagus ochotensis</i>     | 153  | 222  | 208  | 195  | 162  | 171  | 111  | 237  | 106  | 190  |
| <i>Bathylagus pacificus</i>      | 12   | 15   | 4    | 11   | 2    | -    | 2    | 24   | 13   | 2    |
| <i>Bathylagus wesethi</i>        | 259  | 370  | 258  | 365  | 286  | 157  | 298  | 377  | 275  | 184  |
| <i>Leuroglossus schmidti</i>     | -    | -    | -    | -    | -    | 3    | -    | -    | -    | -    |
| <i>Leuroglossus stilbius</i>     | 402  | 502  | 612  | 517  | 508  | 465  | 343  | 350  | 324  | 505  |
| <i>Osmeridae</i>                 | -    | -    | -    | -    | -    | 2    | -    | -    | -    | 2    |
| <i>Stomiiformes</i>              | -    | 1    | 16   | 6    | 3    | 3    | 2    | 9    | 13   | 17   |
| <i>Cyclothone</i> spp.           | 253  | 283  | 161  | 184  | 184  | 74   | 240  | 317  | 514  | 271  |
| <i>Diplophos taenia</i>          | 8    | 1    | -    | 4    | 1    | 3    | 3    | 28   | 36   | 18   |
| <i>Ichthyococcus</i> spp.        | 16   | 23   | 12   | 26   | 30   | -    | 18   | 37   | 43   | 8    |
| <i>Vinciguerrria lucetia</i>     | 532  | 474  | 329  | 425  | 338  | 225  | 574  | 882  | 1209 | 635  |
| <i>Sternoptychidae</i>           | 38   | 67   | 68   | 49   | 41   | 29   | 63   | 86   | 94   | 66   |
| <i>Chauliodus macouni</i>        | 55   | 69   | 47   | 54   | 49   | 54   | 48   | 75   | 72   | 69   |
| <i>Idiacanthus antrostomus</i>   | 48   | 31   | 14   | 19   | 10   | 6    | 19   | 33   | 38   | 36   |
| <i>Aristostomias scintillans</i> | 16   | 8    | 10   | 2    | 4    | 2    | 10   | 11   | 11   | 5    |
| <i>Bathophilus</i> spp.          | 4    | -    | 2    | 1    | 5    | 3    | 4    | 4    | 7    | 10   |
| <i>Tactostoma macropus</i>       | 20   | 15   | -    | 11   | -    | -    | 9    | 2    | 2    | 7    |
| <i>Stomias atriventer</i>        | 96   | 120  | 86   | 124  | 87   | 20   | 67   | 182  | 181  | 142  |
| <i>Myctophiformes</i>            | -    | -    | -    | -    | -    | -    | -    | -    | -    | 2    |
| <i>Anotopterus pharao</i>        | 1    | -    | -    | -    | -    | -    | 1    | -    | -    | 3    |
| <i>Evermannellidae</i>           | -    | -    | -    | -    | 1    | -    | -    | -    | 6    | -    |
| <i>Paralepididae</i>             | 169  | 179  | 95   | 123  | 80   | 59   | 92   | 145  | 165  | 108  |
| <i>Aulopus</i> spp.              | 1    | -    | -    | -    | -    | -    | 1    | -    | -    | -    |
| <i>Scopelosaurus</i> spp.        | -    | -    | -    | -    | 1    | 1    | -    | 3    | 16   | 15   |
| <i>Scopelarchidae</i>            | 59   | 54   | 17   | 28   | 34   | 16   | 43   | 50   | 93   | 63   |
| <i>Myctophidae</i>               | 99   | 186  | 59   | 53   | 60   | 55   | 175  | 174  | 245  | 317  |
| <i>Ceratoscopus townsendi</i>    | 140  | 78   | 33   | 41   | 58   | 36   | 165  | 159  | 373  | 156  |
| <i>Diaphus</i> spp.              | 116  | 156  | 63   | 111  | 81   | 101  | 66   | 90   | 103  | 76   |
| <i>Lampadena urophaos</i>        | 39   | 22   | 10   | 10   | 10   | 14   | 63   | 44   | 120  | 46   |
| <i>Lampanyctus</i> spp.          | 576  | 555  | 393  | 154  | 58   | 45   | 125  | 121  | 260  | 209  |
| <i>Lampanyctus regalis</i>       | -    | -    | -    | 19   | 19   | 14   | 26   | 28   | 46   | 12   |
| <i>Lampanyctus ritteri</i>       | -    | -    | -    | 308  | 296  | 214  | 306  | 416  | 429  | 311  |

TABLE 5. (cont.)

| Name                                | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|
| <i>Notolichnus valdiviae</i>        | 5    | 4    | 4    | 2    | 1    | 2    | -    | 1    | 3    | 12   |
| <i>Notoscopelus resplendens</i>     | 16   | 4    | 10   | 8    | 23   | 1    | 31   | 24   | 76   | 64   |
| <i>Stenobrachius leucopsarus</i>    | 369  | 405  | 365  | 452  | 251  | 395  | 267  | 361  | 327  | 386  |
| <i>Triphoturus mexicanus</i>        | 589  | 715  | 573  | 565  | 475  | 322  | 641  | 768  | 1069 | 808  |
| <i>Centrobranchus</i> spp.          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1    |
| <i>Diogenichthys</i> spp.           | 10   | 3    | 2    | -    | 6    | 3    | 30   | 35   | 79   | 97   |
| <i>Diogenichthys atlanticus</i>     | 109  | 112  | 68   | 87   | 90   | 85   | 109  | 126  | 116  | 121  |
| <i>Diogenichthys lateratus</i>      | 230  | 233  | 232  | 346  | 265  | 113  | 412  | 416  | 442  | 210  |
| <i>Electrona rissoi</i>             | 15   | 4    | 4    | -    | 1    | -    | -    | -    | 2    | 1    |
| <i>Gonichthys tenuiculus</i>        | 49   | 44   | 38   | 45   | 37   | 12   | 81   | 126  | 181  | 55   |
| <i>Hygophum</i> spp.                | 29   | 20   | 23   | 10   | 6    | 6    | 15   | 47   | 91   | 73   |
| <i>Hygophum atratum</i>             | 47   | 35   | 33   | 36   | 43   | 22   | 88   | 96   | 138  | 21   |
| <i>Hygophum proximum</i>            | -    | -    | -    | -    | -    | -    | -    | -    | -    | 2    |
| <i>Hygophum reinhardtii</i>         | 17   | 14   | 1    | 5    | 13   | 7    | 20   | 6    | 16   | 44   |
| <i>Loweina rara</i>                 | 19   | 18   | 33   | 29   | 14   | 5    | 7    | 8    | 9    | 10   |
| <i>Myctophum aurolaternatum</i>     | 6    | -    | -    | 1    | 1    | 4    | 3    | 13   | 4    | 4    |
| <i>Myctophum nitidulum</i>          | 30   | 34   | 7    | 11   | 13   | 13   | 27   | 56   | 105  | 43   |
| <i>Protomystophum crockeri</i>      | 370  | 345  | 211  | 293  | 312  | 243  | 254  | 360  | 424  | 417  |
| <i>Symbolophorus californiensis</i> | 206  | 183  | 132  | 146  | 102  | 60   | 142  | 216  | 191  | 109  |
| <i>Tarletonbeania crenularis</i>    | 306  | 399  | 243  | 164  | 103  | 236  | 116  | 90   | 113  | 222  |
| <i>Synodus</i> spp.                 | 41   | 63   | 44   | 82   | 41   | 39   | 70   | 53   | 66   | 51   |
| <i>Bregmaceros</i> spp.             | 2    | -    | -    | 1    | 3    | -    | 13   | 11   | 13   | 19   |
| <i>Merluccius productus</i>         | 351  | 366  | 417  | 543  | 439  | 365  | 331  | 541  | 340  | 468  |
| Moridae                             | 1    | -    | -    | -    | -    | -    | 5    | -    | -    | -    |
| <i>Physiculus</i> spp.              | 9    | -    | -    | -    | -    | 2    | 8    | 5    | 2    | 3    |
| Macrouridae                         | 5    | 4    | 6    | 15   | 3    | 6    | 2    | 7    | 3    | 4    |
| Ophidiiformes                       | 68   | 53   | 52   | 37   | 26   | 37   | 74   | 61   | 43   | 41   |
| <i>Brosomphycis marginata</i>       | 9    | 18   | 9    | 19   | 6    | 12   | 14   | 16   | 10   | 3    |
| Carapidae                           | 2    | 1    | 1    | 3    | 1    | 2    | -    | 4    | -    | 1    |
| <i>Chilara taylori</i>              | 6    | 17   | -    | 8    | 14   | 9    | 6    | -    | 17   | 8    |
| <i>Ophidion scrippsae</i>           | 17   | 13   | 5    | 17   | 4    | 19   | 53   | 15   | 44   | 43   |
| <i>Porichthys</i> spp.              | 2    | -    | 1    | -    | -    | -    | -    | -    | -    | 1    |
| Antennariidae                       | 1    | -    | -    | -    | -    | -    | 1    | -    | -    | -    |
| Ceratioidei                         | 3    | 3    | -    | 2    | -    | 2    | 16   | 16   | 50   | 19   |
| Lophiidae                           | -    | -    | -    | -    | -    | -    | -    | -    | 1    | -    |
| Gobiesocidae                        | -    | 1    | -    | -    | 1    | -    | 1    | 1    | 1    | 1    |
| Exocoetidae                         | 2    | 2    | 6    | 1    | -    | 1    | 5    | 1    | 6    | 4    |
| Hemiramphidae                       | 5    | -    | -    | -    | -    | -    | 1    | 1    | -    | -    |
| <i>Cololabis saira</i>              | 53   | 28   | 42   | 22   | 54   | 23   | 14   | 28   | 20   | 16   |
| Atherinidae                         | 2    | 6    | 3    | 7    | 3    | 3    | 1    | 2    | 1    | 1    |
| Trachipteridae                      | 32   | 40   | 28   | 17   | 13   | 12   | 28   | 31   | 12   | 32   |
| <i>Melamphaes</i> spp.              | 221  | 233  | 151  | 189  | 166  | 138  | 212  | 238  | 209  | 157  |
| <i>Poromitra</i> spp.               | 1    | 4    | 12   | 28   | 4    | 18   | 21   | 4    | 17   | 19   |
| <i>Scopelogadus robustus</i>        | -    | -    | -    | -    | -    | -    | -    | -    | -    | 3    |
| <i>Scopelogadus bispinosus</i>      | 4    | 4    | 1    | 15   | 6    | 5    | 26   | 27   | 60   | 26   |
| Fistulariidae                       | -    | -    | -    | -    | -    | -    | -    | 1    | -    | -    |
| <i>Macroramphosus gracilis</i>      | 1    | -    | -    | -    | 2    | -    | 2    | -    | 1    | 1    |
| <i>Syngnathus</i> spp.              | 5    | 6    | 12   | 4    | 6    | 2    | 5    | 2    | 3    | 7    |

TABLE 5. (cont.)

| Name                              | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|
| Agonidae                          | 2    | 4    | 12   | 23   | 10   | 7    | 11   | 11   | 8    | 8    |
| <i>Anoplopoma fimbria</i>         | -    | 1    | 1    | -    | 57   | -    | -    | -    | -    | -    |
| Cottidae                          | 24   | 36   | 22   | 49   | -    | 37   | 31   | 20   | 27   | 30   |
| <i>Scorpaenichthys marmoratus</i> | 6    | 8    | 3    | 17   | 4    | 13   | 3    | 6    | 4    | 6    |
| Cyclopteridae                     | 4    | 13   | 16   | 8    | 5    | 8    | 3    | 4    | 2    | 11   |
| Hexagrammidae                     | 1    | -    | -    | -    | -    | -    | 1    | 2    | -    | 1    |
| <i>Ophiodon elongatus</i>         | -    | 1    | 4    | -    | 2    | 1    | 1    | 3    | -    | -    |
| <i>Oxylebius pictus</i>           | -    | 1    | 4    | 3    | 4    | 7    | 4    | 6    | 3    | 9    |
| <i>Zaniolepis</i> spp.            | -    | 1    | 9    | 5    | -    | 9    | 2    | 12   | 6    | 9    |
| Scorpaenidae                      | 10   | 9    | 2    | -    | -    | 1    | 1    | 9    | 2    | 2    |
| <i>Scorpaena</i> spp.             | -    | -    | -    | -    | -    | 15   | 30   | -    | 28   | 29   |
| <i>Sebastes</i> spp.              | 600  | 686  | 771  | 841  | 637  | 613  | 558  | 665  | 602  | 572  |
| <i>Sebastolobus</i> spp.          | 24   | 16   | 2    | 1    | -    | 2    | 5    | 2    | 10   | 25   |
| <i>Prionotus</i> spp.             | 24   | 19   | 12   | 13   | -    | 19   | 30   | 25   | 28   | 17   |
| Blennioidei                       | 2    | -    | -    | -    | -    | 1    | 2    | -    | -    | 1    |
| Bathymasteridae                   | -    | -    | -    | -    | -    | -    | -    | -    | -    | 1    |
| <i>Hypsoblennius</i> spp.         | 18   | 32   | 38   | 27   | 14   | 11   | 26   | 51   | 59   | 47   |
| Clinidae                          | 7    | 4    | 12   | 19   | 15   | 17   | 14   | 20   | 15   | 18   |
| Gobiidae                          | 116  | 107  | 61   | 113  | 56   | 71   | 93   | 84   | 108  | 67   |
| <i>Icosteus aenigmaticus</i>      | 1    | 4    | -    | -    | 57   | 1    | -    | -    | 2    | 3    |
| Labridae                          | 74   | 135  | 93   | 124  | -    | 39   | 97   | 82   | 122  | 75   |
| Pomacentridae                     | -    | -    | -    | 14   | -    | 8    | 24   | 9    | 18   | 2    |
| <i>Chromis punctipinnis</i>       | 37   | 27   | -    | 21   | 4    | 18   | 12   | 16   | 16   | 38   |
| <i>Hypsypops rubicundus</i>       | -    | -    | -    | -    | -    | -    | -    | -    | 2    | -    |
| <i>Mugil</i> spp.                 | 2    | -    | -    | 1    | -    | 2    | 1    | -    | 9    | 3    |
| Apogonidae                        | 1    | -    | 2    | -    | -    | -    | 15   | 3    | 5    | 4    |
| <i>Brama</i> spp.                 | 4    | 1    | -    | 2    | 2    | -    | 10   | 5    | 9    | 6    |
| Carangidae                        | 15   | 14   | -    | 9    | -    | 9    | -    | 15   | 26   | 12   |
| <i>Seriola</i> spp.               | -    | -    | -    | 1    | -    | -    | -    | -    | 1    | -    |
| <i>Seriola lalandi</i>            | -    | -    | -    | 5    | 2    | 11   | 36   | 7    | 36   | 21   |
| <i>Trachurus symmetricus</i>      | 372  | 419  | 322  | 373  | 369  | 217  | 295  | 328  | 286  | 227  |
| <i>Coryphaena hippurus</i>        | -    | -    | -    | -    | -    | 6    | 24   | 13   | 27   | 7    |
| Gerreidae                         | -    | -    | -    | -    | -    | -    | 13   | 5    | 7    | 8    |
| Haemulidae                        | -    | -    | -    | -    | -    | -    | 14   | 6    | 11   | 17   |
| <i>Girella nigricans</i>          | -    | 5    | -    | 1    | -    | 3    | 3    | 4    | 2    | 4    |
| <i>Medialuna californiensis</i>   | 9    | 11   | -    | 17   | 5    | 5    | 12   | 2    | 1    | 4    |
| <i>Caulolatilus princeps</i>      | -    | -    | -    | 12   | 4    | 8    | 10   | 2    | 10   | 9    |
| Mullidae                          | -    | -    | -    | -    | -    | -    | -    | -    | 6    | -    |
| Priacanthidae                     | -    | -    | -    | -    | -    | -    | -    | -    | 1    | -    |
| Sciaenidae                        | 12   | 61   | 30   | 90   | 61   | 58   | 70   | 76   | 71   | 74   |
| Serranidae                        | 20   | 29   | 10   | 29   | 1    | 8    | 17   | 31   | 66   | 39   |
| Gempylidae                        | 2    | 1    | -    | -    | -    | -    | -    | 6    | 4    | 10   |
| Scombridae                        | -    | 1    | 1    | 1    | 2    | -    | 7    | 4    | 3    | 40   |
| <i>Auxis</i> spp.                 | 9    | 1    | 1    | 1    | -    | 9    | 23   | 3    | 20   | -    |
| <i>Euthynnus</i> spp.             | -    | -    | -    | -    | -    | -    | -    | -    | 3    | -    |
| <i>Sarda chiliensis</i>           | -    | -    | -    | -    | -    | -    | 1    | 2    | 9    | -    |
| <i>Scomber japonicus</i>          | 59   | 73   | 97   | 119  | 93   | 4    | 71   | 81   | 65   | 45   |
| <i>Scomberomorus</i> spp.         | 1    | -    | -    | -    | -    | 39   | 1    | 3    | 2    | -    |

TABLE 5. (cont.)

| Name                              | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|
| <i>Thunnus albacares</i>          | -    | -    | -    | -    | -    | -    | -    | 8    | 2    | -    |
| Trichiuridae                      | 23   | 31   | 16   | 36   | 25   | 28   | 47   | 24   | 61   | 45   |
| <i>Sphyræna argentea</i>          | 14   | 16   | 5    | 6    | 3    | 14   | 15   | 15   | 27   | 28   |
| <i>Isichthys lockingtoni</i>      | 125  | 139  | 114  | 125  | 105  | 95   | 70   | 79   | 74   | 86   |
| Nomeidae                          | -    | -    | -    | -    | -    | -    | 5    | 2    | 9    | 3    |
| <i>Peprilus simillimus</i>        | 14   | 50   | 28   | 38   | 47   | 34   | 37   | 26   | 22   | 12   |
| <i>Tetragonurus cuvieri</i>       | 29   | 17   | 8    | 10   | 65   | 146  | 124  | 17   | 26   | 29   |
| Chiasmodontidae                   | 24   | 33   | 16   | 31   | 24   | 14   | 57   | 59   | 75   | 34   |
| Uranoscopidae                     | 1    | -    | -    | -    | -    | -    | 1    | 1    | 1    | 2    |
| Pleuronectiformes                 | 9    | 13   | 48   | 46   | 13   | 6    | 5    | 11   | 5    | 16   |
| Bothidae                          | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    |
| <i>Citharichthys</i> spp.         | 3    | -    | 1    | 3    | 1    | 2    | 4    | 8    | 4    | 2    |
| <i>Citharichthys fragilis</i>     | 428  | 524  | 561  | 147  | 158  | 82   | 127  | 118  | 121  | 151  |
| <i>Citharichthys platophrys</i>   | -    | -    | -    | 152  | 107  | 93   | 125  | 101  | 106  | 137  |
| <i>Citharichthys sordidus</i>     | -    | -    | -    | -    | -    | -    | -    | -    | 1    | -    |
| <i>Citharichthys stigmaeus</i>    | -    | -    | -    | 109  | 56   | 59   | 62   | 69   | 48   | 20   |
| <i>Citharichthys xanthostigma</i> | -    | -    | -    | 347  | 206  | 207  | 191  | 136  | 134  | 101  |
| <i>Etropus</i> spp.               | -    | -    | -    | 189  | 163  | 106  | 208  | 80   | 118  | 117  |
| <i>Hippoglossina</i> spp.         | -    | -    | -    | 4    | -    | -    | 16   | 16   | 20   | 14   |
| <i>Hippoglossina stomata</i>      | 1    | -    | -    | -    | -    | -    | -    | -    | -    | 1    |
| <i>Paralichthys</i> spp.          | 13   | 27   | 42   | 57   | 22   | 34   | 44   | 33   | 32   | 39   |
| <i>Paralichthys californicus</i>  | -    | -    | -    | -    | -    | -    | -    | 1    | -    | 1    |
| <i>Syacium ovale</i>              | 18   | 50   | 19   | 42   | 22   | 23   | 30   | 48   | 37   | 39   |
| <i>Xystreurus liolepis</i>        | 5    | 2    | 1    | 3    | -    | 2    | 6    | 8    | 8    | 1    |
| <i>Eopsetta jordani</i>           | 3    | 16   | 10   | 5    | 4    | 1    | 7    | 2    | 5    | 8    |
| <i>Glyptocephalus zachirus</i>    | -    | 1    | -    | -    | -    | -    | -    | -    | -    | -    |
| <i>Hypopsetta guttulata</i>       | 12   | 25   | 6    | 9    | 5    | 8    | 11   | 14   | 8    | 7    |
| <i>Isopsetta isolepis</i>         | -    | -    | 2    | -    | -    | -    | 1    | 3    | -    | 1    |
| <i>Lyopsetta exilis</i>           | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| <i>Microstomus pacificus</i>      | 51   | 80   | 68   | 116  | 57   | 74   | 90   | 50   | 48   | 50   |
| <i>Parophrys vetulus</i>          | 28   | 30   | 17   | 17   | 30   | 19   | 26   | 20   | 20   | 15   |
| <i>Pleuronichthys</i> spp.        | -    | 31   | 45   | 51   | 50   | 36   | 39   | 62   | 29   | 30   |
| <i>Pleuronichthys coenosus</i>    | 14   | 14   | 10   | 18   | 23   | 18   | 7    | 13   | 7    | 10   |
| <i>Pleuronichthys decurrens</i>   | 17   | 6    | 13   | 11   | 17   | 3    | 5    | 5    | 5    | 5    |
| <i>Pleuronichthys ritteri</i>     | 4    | 4    | 4    | 2    | 4    | 2    | 3    | 4    | 4    | 3    |
| <i>Pleuronichthys verticalis</i>  | 1    | 8    | 9    | -    | 4    | 5    | 3    | 3    | 2    | 2    |
| <i>Psettichthys melanostictus</i> | 3    | 44   | 24   | 31   | 26   | 33   | 40   | 7    | 7    | 36   |
| <i>Symphurus</i> spp.             | -    | -    | -    | 5    | -    | 1    | 5    | 5    | 3    | 2    |
| <i>Balistidae</i>                 | 45   | 50   | 36   | 35   | 11   | 49   | 80   | 40   | 75   | 64   |
| Tetraodontidae                    | 1    | -    | -    | -    | -    | -    | -    | 1    | -    | -    |
| Disintegrated fish larva          | 2    | -    | -    | -    | 1    | -    | -    | -    | -    | -    |
| Unidentified fish larva           | 229  | 253  | 74   | 63   | 124  | 103  | 193  | 258  | 361  | 482  |
|                                   | 187  | 218  | 284  | 161  | 99   | 100  | 129  | 181  | 272  | 343  |

TABLE 6. List of stations with multiple occupancies in one month during 1952. Stations were occupied twice in one month except those indicated by an asterisk, which were occupied three times.

| Station |      | Month | Station |      | Month |
|---------|------|-------|---------|------|-------|
| 117.0   | 26.0 | 3     | 90.0    | 28.0 | 6     |
| 117.0   | 30.0 | 3     | 90.0    | 30.0 | 6 *   |
| 117.0   | 35.0 | 3     | 90.0    | 37.0 | 6 *   |
| 117.0   | 40.0 | 3     | 90.0    | 45.0 | 6     |
| 117.0   | 50.0 | 3     | 90.0    | 53.0 | 6     |
| 120.0   | 25.0 | 3     | 90.0    | 60.0 | 6     |
| 120.0   | 30.0 | 3     | 93.0    | 30.0 | 6     |
| 120.0   | 35.0 | 3     | 93.0    | 40.0 | 6     |
| 120.0   | 45.0 | 3     | 93.0    | 50.0 | 6     |
| 120.0   | 50.0 | 3     | 93.0    | 60.0 | 6     |
| 120.0   | 60.0 | 3     | 97.0    | 30.0 | 6     |
| 120.0   | 70.0 | 3     | 97.0    | 40.0 | 6     |
| 120.0   | 80.0 | 3     | 97.0    | 50.0 | 6     |
| 120.0   | 90.0 | 3     | 97.0    | 60.0 | 6     |
| 123.0   | 37.0 | 3     | 100.0   | 29.0 | 6     |
| 123.0   | 40.0 | 3     | 100.0   | 30.0 | 6     |
| 123.0   | 50.0 | 3     | 100.0   | 35.0 | 6     |
| 123.0   | 60.0 | 3     | 100.0   | 40.0 | 6     |
| 127.0   | 34.0 | 3     | 100.0   | 50.0 | 6     |
| 127.0   | 40.0 | 3     | 100.0   | 60.0 | 6     |
| 127.0   | 50.0 | 3     | 103.0   | 30.0 | 6     |
| 127.0   | 60.0 | 3     | 103.0   | 35.0 | 6     |
| 130.0   | 30.0 | 3     | 113.0   | 30.0 | 8     |
| 130.0   | 35.0 | 3     | 117.0   | 26.0 | 8     |
| 130.0   | 40.0 | 3     | 117.0   | 30.0 | 8     |
| 130.0   | 50.0 | 3     | 117.0   | 40.0 | 8     |
| 130.0   | 60.0 | 3     | 120.0   | 25.0 | 8     |
| 133.0   | 25.0 | 3     | 120.0   | 35.0 | 8     |
| 133.0   | 30.0 | 3     | 121.0   | 30.0 | 8     |
| 133.0   | 40.0 | 3     |         |      |       |
| 133.0   | 50.0 | 3     |         |      |       |
| 137.0   | 23.0 | 3     |         |      |       |
| 137.0   | 30.0 | 3     |         |      |       |
| 137.0   | 40.0 | 3     |         |      |       |
| 113.0   | 30.0 | 4     |         |      |       |
| 113.0   | 35.0 | 4     |         |      |       |
| 113.0   | 40.0 | 4     |         |      |       |
| 113.0   | 60.0 | 4     |         |      |       |
| 113.0   | 65.0 | 4     |         |      |       |
| 113.0   | 70.0 | 4     |         |      |       |
| 117.0   | 60.0 | 4     |         |      |       |
| 117.0   | 65.0 | 4     |         |      |       |
| 117.0   | 70.0 | 4     |         |      |       |
| 120.0   | 45.0 | 4     |         |      |       |
| 123.0   | 40.0 | 4     |         |      |       |
| 123.0   | 45.0 | 4     |         |      |       |
| 87.0    | 35.0 | 6     |         |      |       |





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